# CHEMISTAND DRUGGIST

For Retailer, Wholesaler and Manufacturer

MAY 29 1954



# Needs to be developed fully!



#### One-third of the market already uses a denture cleaner...two-thirds await development

1 in 3 of the twenty million denture wearers already use a specific denture cleaner. But the other two-thirds still use makeshifts. Even kitchen scourers!

> Research shows that when customers try Steradent they keep on buying it. Steradent's lively, new biggest-ever advertising is aimed at those remaining two-thirds!

So just show your customers that you stock Steradent and (if we may strain the metaphor beyond endurance!) ...

Develop the other two with



# It's selling like hot cakes!

#### THE PROVED NEUTRALIZER FOR ALL HOUSEHOLD SMELLS

Since the Aspro group acquired the Dis pel business, Dis pel sales have boomed and are still booming. Dis pel is a first-rate product. It is now attractively presented and most vigorously advertised, and it offers your customers unchallengeable value for money. Chemists everywhere are making quick, easy profits from booming Dis pel sales. Don't miss this easy money! Order your stocks of Dis-pel now!

## The best seller of all is the 'DOUBLE DIS-PEL'

Price 3/6

#### Containing

- The Disopel full-size dispeller (sold separately for 2;-)
- The Disopel full-size refill (sold separately for 1/6)
- 3. The Dis-pel FREE wall-bracket (not sold separately)

# DIZ-DET

can make money for YOU!

Order your DIS-PEL stocks from

ADVANCE INDUSTRIES LIMITED, 116 BUCKINGHAM AVENUE, SLOUGH, BUCKS. (A subsidiary of Nicholas Products Laboratories Ltd.) • MEMBERS OF THE ASPRO LTD. GROUP OF COMPANIES

DIS-PEL IS ECONOMICAL





GREEFF
CHEMICALS
FOR
EVERY
TRADE



R.W. GREEFF & CO.LTD.

12, FINSBURY CIRCUS, LONDON, E.C.2 Grams: GREEFF AVE LONDON Phone: LONDON WALL 5241

# NOOLENTE INSULINS

## The Original Insulin Zinc Suspensions

are imported from the Novo Laboratories in Copenhagen, where these outstanding new insulin derivatives were discovered and developed by Hallas-Møller, Petersen and Schlichtkrull. Each batch is tested and assayed by the manufacturers, Novo Terapeutisk Laboratorium A/S, in Denmark, and by The Evans Biological Institute prior to release in this country.

| TYPE OF INSULIN                                       | STRENGTH     | IDENTIFICATION                                          | TRADE PRICE         | RETAIL        |
|-------------------------------------------------------|--------------|---------------------------------------------------------|---------------------|---------------|
|                                                       | i.u. per ml. | COLOURS                                                 | per vial of 10 n.t. | each          |
| NOVO SEMILENTE Insulin Zinc Suspension (Amorphous)    | 40           | Vermilion/Blue                                          | 4/4½                | 5/10          |
|                                                       | 80           | Vermilion/Green                                         | 8/3                 | 11/-          |
| NOVO LENTE Insulin Zinc Suspension                    | 40           | Mauve/Blue                                              | 4/4½                | 5/10          |
|                                                       | 80           | Mauve/Green                                             | 8/3                 | 11 <i> </i> - |
| NOVO ULTRALENTE Insulin Zinc Suspension (Crystalline) | 40<br>80     | Brilliant Yellow/<br>Blue<br>Brilliant Yellow/<br>Green | 4/4½<br>8/3         | 5/10<br>11/-  |

#### EVANS MEDICAL SUPPLIES LIMITED

SPEKE · LIVERPOOL 19 AND RUISLIP · MIDDLESEX

Address





SPECIAL SEASONAL TERMS  $33\frac{1}{3}\%$  discount + bonus 13 to the dozen

(3 doz. orders either size).

#### PLUS

eczema, etc.

5% on £5 and 10% on £10 direct orders offered in return for 14-day counter and window display.

\* Attractive show material on request.

LARGE SIZE 2/11d. (inc. tax) HANDY PACK 1/6d. (inc. tax)

21s.

SOUTHON LABORATORIES LTD 88 UPPER RICHMOND ROAD, LONDON,

෯෯෫෧෯෫෫෯෯෯෯෯෯෯෯෫෫෫෫෫෯෯෯෯෯෯෯෯෯෫෫෫෧෯෯෯ඁ෦

Scottish Sales Depôt: Thornybauk, Fountainbridge, Edinburgh,
Telephone: Fountainbridge 1403



(C & D 29/5/54)

#### BOOKS PHARMACIST

For June Publication

THE NEW SIXTH EDITION OF

#### BENTLEY'S

#### TEXTBOOK OF PHARMACEUTICS

Revised by HAROLD DAVIS, B.Sc., Ph.D., F.P.S., F.R.I.C., with the collaboration of M. W. Partridge, B.Pharm., B.Sc., Ph.D., F.P.S., and C. L. Sargent, F.P.S.

Bentley has long taken its place as the standard work on the subject, and the sixth edition fully maintains the high standard of its predecessors. It has been completely revised to accord with the British Pharmacepia, 1953, and with recent advances in pharmaceutical knowledge. The changes recently made in the syllabus for the pharmacist's qualifying examination have been fully met, and the book also serves as a basic textbook for those studying for a university degree in pharmacy. The author's hospital experience has been in pharmacy. The author's hospital experience has been incorporated for the benefit of hospital pharmacists and others who use Bentley as a work of reference.

Pp. xii + 1050, with 306 illus. Postage 1s. 4d. Now available

BARBER'S

#### PHYSIOLOGY AND PHARMACOLOGY FOR PHARMACEUTICAL STUDENTS

Pp. x + 622, with 185 illustrations. 3rd Edition.

Postage 1s. 4d.

#### HEBERT AND ELLERY'S TEXTBOOK

#### OF PRACTICAL PHARMACOGNOSY

Pp. xii + 372, with 331 illustrations

Postage 1s.

#### MANGHAM AND HOCKLEY'S BIOLOGY FOR PHARMACEUTICAL

STUDENTS AND OTHERS 2nd Edition. Pp. viii + 634, with 317 illustrations

Postage 1s. 4d. TREASE'

TEXTBOOK OF PHARMACOGNOSY

Pp. viii + 822, with 276 illustrations 6th Edition. Postage 1s. 6d. 37s. 6d.

#### BAILLIÈRE. TINDALL AND COX 7-8 Henrietta Street, London, W.C. 2.

## INDEX TO ADVERTISERS

| Addis, Ltd. 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cov & Gate, Ltd                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Advance Industries, Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cox, Intiliar II., & Co.: Eta          |
| Aerograph Co., Ltd., The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cupal, Ltd                             |
| Agfa, Ltd. 24, 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Cuticura Preparations                  |
| Allen & Hanburys, Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| Alwitt Trading Co., Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| Arvin Electric, Ltd. 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Daniel, Richard, & Son, Ltd,           |
| Ayrton, Saunders & Co., Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Davenport, J. T., Ltd                  |
| rigiton, badinario de Boi, Era, minimo e                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Deb Chemical Proprietaries, Ltd        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Dixor, Ltd. 20                         |
| Bailey, Robert, & Son, Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Dunn Bros. Succrs., Ltd                |
| Bailliere Tindall & Cox, Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ,                                      |
| Barnett & Foster, L'd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| Berdoe & Fish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Edme, Ltd. 44                          |
| Bickiepegs, LtdLeader Page                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ellis, Son & Paramorc, Ltd Leader Page |
| Biorex Laboratories, L <sup>1</sup> d                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Evan Williams Co., Ltd                 |
| Boots Pure Daug Co., Ltd. 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Evans Medical Supplies, Ltd            |
| Boutalls Chemists. Ltd. 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                        |
| British Drug Houses, Ltd., The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
| British Dyewood Co., Ltd., The                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Felling Zinc Oxide Company, The        |
| British Oxygen Co., Ltd., The 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Field, J. C. & J., Ltd                 |
| Brome & Schimmer 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Fish Optical Co., Ltd                  |
| Buckley Bowker Tablet Co., Ltd. 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | " Flypak " 39                          |
| Burroughs Wellcome & Co. 29, 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Franks, Alfred, & Bart'ett Co., Ltd    |
| Buffoughs wencome & Co                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                        |
| Carnegies of Welwyn, Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Greeff, R. W., & Co., Ltd              |
| Chemist and Druggist Poisons Guide                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Grcgg & Co. (Knottingley), Ltd         |
| Christy, Thos., & Co., Ltd. 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Gibson, Robert, & Sons, Ltd            |
| Clinical Products, Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Grovewell, Ltd                         |
| Coates & Cooper, Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                        |
| Compressed Paper Packing, Ltd. 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (continued overleaf)                   |
| Compression a special analysis of the state | (continue brefield)                    |

From the Carnegie Range of Fine Chemicals

# QUININE AND SALTS

CARNEGIES OF WELWYN LTD

Telegrams: 'CARNEGIES, WELWYN GARDEN CITY'

Telephone: WELWYN GARDEN 5001

(6 lines)

| INDEX (cont.)                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Halex, Ltd. 19 Harley, Thomas, Ltd. 26 Herbert & Sons, Ltd. 36 Hughes Brushes, Ltd. 28                                                                                                                 |
| Industrial Appliances, Ltd. 49 International Laboratories, Ltd. Leader Page                                                                                                                            |
| Jeffreys Miller & Co., Ltd                                                                                                                                                                             |
| Kearsley, C. & G., Ltd.42Kellys, John (London), Ltd.34                                                                                                                                                 |
| Lastonet Products, Ltd. 40<br>Lloyd-Hamol, Ltd. 10                                                                                                                                                     |
| Macfarlan, J. F., & Co., Ltd. Front Cover Matthews & Wilson, Ltd. 48 Maw, S., Son & Sons, Ltd. 31 Menley & James, Ltd. 18 Mining & Chemical Products, Ltd. 42 'Myers of Old Street' Classified Section |
| Neville Brown & Co., Ltd                                                                                                                                                                               |
| Oppenheimer Casing Co. (U.K.), Ltd., The 4 Orridge & Co                                                                                                                                                |
| Parke, Davis & Co., Ltd. 17 Penn, D. F., Ltd. Cover iv Pfizer, Ltd. 7 Phillips, Chas. H., Chemical Co., Ltd., The 54                                                                                   |

| Potter, Wm., & Sons                                                                                                                                                                                                                                 | 38<br>48                                       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Radio Times Rees, L., & Co., Ltd. Ribbands, C., & Sons Rose, L., & Co., Ltd.                                                                                                                                                                        | 43<br>36<br>tion<br>45                         |
| Scruton, O., & Co., Ltd. Sharp & Dohme, Ltd. Shopfitters (Lancashire), Ltd. Simpkin, A. L., & Co., Ltd. Soiex (London), Ltd. Southon Laboratories, Ltd. Steradent Surgical Hosiery Co., Ltd.                                                        | 46<br>21<br>35<br>46<br>47<br>4<br>er ii<br>38 |
| Tempo Laboratories, Ltd. Trapow, D., & Co., Ltd.                                                                                                                                                                                                    | 14<br>35                                       |
| Vacco, Ltd.                                                                                                                                                                                                                                         | 9                                              |
| Warrington Chemical & Drug Co., Ltd. Washington Chemical Co., Ltd., The Webster, Isaac, & Sons, Ltd. Wesley, Harold Whiffen & Sons, Ltd. Whitaker & Co. (Kendal), Ltd. Wiles, C., Ltd. Wimsol, Ltd. Woodward, G. O., & Co., Ltd. Woolf, Lewis, Ltd. | 34<br>14<br>34                                 |
| Zimmermann, Chas., & Co., Ltd.                                                                                                                                                                                                                      | 51                                             |





# PERMAPEN PLUS

a tri-penicillin preparation



rapid.
Sustained.
persistent

A new combination giving, in a single 600,000 unit intramuscular injection, the advantages of its three constituents.<sup>1</sup>

rapid bactericidal blood levels

sustained moderate blood levels

persistent inhibitory blood levels

Penicillin G Potassium Crystalline 100,000 units

Penicillin G Procaine Crystalline 300,000 units

Dibenzylethylenediamine (DBED) Dipenicillin G 200,000 units



1. (1953) Antibiot. and Chemoth, 3, 1056

World's Largest Producer of Antibiotics

Full literature is available on request

PFIZER LIMITED · FOLKESTONE · KENT · Tel: Folkestone 51771

## No. 3 of a Series PRESENTED BY ARTHUR H. COX & CO. LTD



# "Dr. Brighton" prescribes . . .

For the first fifty years of early Brighton's existence no one seems to have thought that pleasure could be derived from looking at or walking by the sea. In 1798 Regency builders had other ideas however, and Royal Crescent became the first series of houses to be built in Brighton actually facing the sea.

Its principal feature lies in the black mathematical tiles with which the brickwork is faced. These black "Hampshire" tiles, as they are called, are glazed as the old pantiles were glazed and have an extraordinary sparkle and beauty, at the same time standing up remarkably well to all conditions of weather.

Unchanged since Regency days, Royal Crescent is an interesting example of art and industry combining successfully to serve a common purpose.

A similar functional combination can be seen in the coating of tablets. Apart from therapeutic considerations, good coating gives elegance and protection to tablets. The "Cox finish" is well known in the pharmaceutical industry, and is proof that here at Brighton, you can go by appearances.



#### ARTHUR H. COX & CO. LTD

Manufacturing Chemists since 1839

BRIGHTON 7



VACCO LIMITED, GROSVENOR GARDENS HOUSE, GROSVENOR GARDENS, LONDON, S.W.I.

# Now from Switzerland

comes this famous Sun-Cream.

# ULTRA-TAN

A NEW SUN-CREAM WITH A NEW APPEAL

Ultra-Tan gives a glorious, luxurious Riviera tan anywhere under the sun.

golder

look th

Scienti knowi the Bi skin

Ulus

new Tan

chem

glorio YOU admir

backed by the most attention-getting, news-making advertising campaign a sun-tan preparation ever had

## SUN-BATHING P Get a Riviera tan In addition

without going abroad!

Amazing new Swiss Sun-Cream gives golden tan without sunburn Now you can have the same radiantly golden Now you can have the same radiantly golden look that people get on a Mediterranean cruise or a Riviera holiday. Ultra-Tan, the amazing new Sun-Cream, will do this for you Ultra-Tan, a unique balance of skin-protecting and sun-tanning elements, is a triumph of Swiss sun-tanning elements. sun-tanning elements, is a triumph of Swiss

chemistry

In a wonderful new way Ultra-Tan lets through
the sun-rays that tan, excludes the rays that burn.
Scientifically tested against seven of the best.
Anows sun-tan preparations, Ultra-Tan proced
skin if you use Ultra-Tan. Instead, picture a
gloriously golden, satin-skinned sun-taned
gloriously superficient superficient superficient sun-taned
gloriously superficient super

for a glorious tan without burn

Let amazing new Swiss Sun-cream, a glorions give you a glorions Rivera ann without sub-burn. It prevents bliste-ing, reduess, daying, wind-burn. Stays on in the water, theal for children, A soothing treatment for skin already sunburnt.

#### **ADVERTISEMENTS**

like these are booked to appear regularly throughout the summer season in National Daily Papers, National Sunday Papers, General magazines and Women's magazines, with a total circulation of 55,955,000.

#### COLOUR FILMLETS

made by a famous Continental producer, will be seen by thousands of cinema-goers in 18,091 showings throughout the summer at seaside towns all over the country.

This attractive 5-colour

#### COUNTER SELL-OUT

packs 12 tubes of Ultra-Tan. Price per dozen 14/-. Purchase Tax 10/6.

ULTRA-TAN \* 2'6 per tu

Order through your usual wholesaler

LLOYD-HAMOL LTD., 11 WATERLOO PLACE, LONDON, S.W.1, and at Zurich

# \* It's new . . . it's better!



26

with the bay rum base and with powerful advertising

in

DAILY EXPRESS . DAILY MAIL . DAILY MIRROR DAILY TELEGRAPH · NEWS CHRONICLE · EVENING NEWS . STAR . SUNDAY EXPRESS . SUNDAY PICTORIAL . NEWS OF THE WORLD . PICTURE POST . MEN ONLY . READER'S DIGEST REVEILLE . BIRMINGHAM EVE. DESPATCH BIRMINGHAM MAIL . BRISTOL EVE. POST CARDIFF S. WALES ECHO . COVENTRY EVE. TELEGRAPH · DERBY EVE. TEL. · GLASGOW EVE. TIMES · GLASGOW EVE. CITIZEN · LEEDS-YORKS. EVE. NEWS . LEEDS - YORKS. EVE. POST LEICESTER MERCURY . MANCHESTER EVE. CHRONICLE MANCHESTER EVE. NEWS NEWCASTLE EVE. CHRONICLE . NOTTINGHAM EVE POST . SHEFFIELD STAR . STOKE EVE. SENTINEL . WOLVERHAMPTON EXPRESS & STAR

SIX FREE JARS

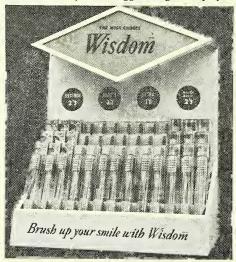
For every  $2\frac{1}{2}$  dozen you buy we give you six free on a total outlay (including tax) of £3.2.6d. your profit is £1.7.6d.

This introductory display bonus is offered providing you agree to display Keg prominently on your counter for a period of 3 weeks. This offer will close on June 30th.

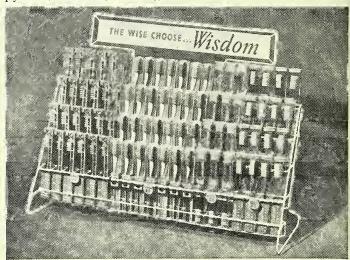
# How do you display your Wisdom?

There's really no need for us to tell you that Wisdom tooth- Below are photographs of 6 Wisdom displays now available brushes are the quickest-selling toothbrushes in this country. for you. They are all extremely well made. And, as you can You know that from experience!

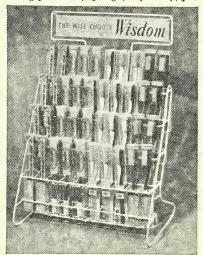
see, they cover a range of most attractive designs. Please tear But there's another point we want to mention. Wisdom tooth- off the form at the bottom of the page and post it to us for brushes have by far the biggest range of displays to help you sell. full details and terms.



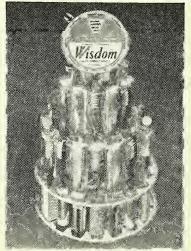
I A neat metal display with concealed flashing ugnt, holding 52 brushes, 15" high, 181" wide, 71" deep.

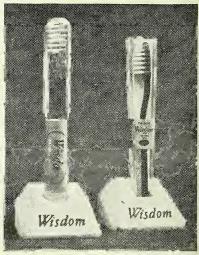


2 This bigger display, strongly made of white-painted wire, carries 80 brushes in a very small counter area. Size: 20" wide by 16\frac{1}{2}" high, by 7" deep.



3 A smaller version of No. 2, holding 40 brushes. Size: 13" wide by 18" high by 7" deep.





4 Rotating merry-go-round with intriguing 5 Plaster bases, for single brush. Useful in wintoothbrush selector, 8½" base dia., 14½" high, dow displays. Size: 3" wide, 1½" high, 2½" deep.



6 Clean and business-like, this white plastic display looks well for window or counter. 10" wide, 7" high, 3" deep.

|                                                    | TEAR OFF                                |                                         |         |
|----------------------------------------------------|-----------------------------------------|-----------------------------------------|---------|
| TO: ADDIS LIMI                                     | ED, BRUSI                               | HWORKS, H                               | ERTFORD |
| I am interested in havi<br>following Wisdom displa |                                         |                                         |         |
| I 2 3                                              | 4                                       | 5                                       | 6       |
| NAME                                               |                                         | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | •       |
| ADDRESS                                            | *************************************** | -                                       |         |
|                                                    |                                         |                                         |         |
| ***************************************            |                                         |                                         |         |
| =                                                  |                                         | *************************************** |         |

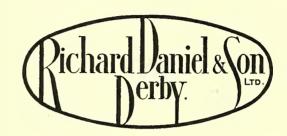
# PENICILLIN

# **PREPARATIONS**

- LOZENGES
- TABLETS
- OINTMENTS
- AIDS TO DISPENS-ING OUTFITS for CREAM and DROPS

Price List on application

MANUFACTURED BY-



MANSFIELD ROAD, DERBY

And at GROSVENOR ST., ASHTON-U-LYNE

Tel.: 48266 (4 lines)
Tel.: 2816 (3 lines)



INSULIN ZINC SUSPENSION (Amorphous) A.B.

INSULIN ZINC SUSPENSION (Crystalline) A.B.

## NEW STRENGTHS

The need has become apparent for higher strengths of Insulin Zinc Suspension (Crystalline) and Insulin Zinc Suspension (Amorphous). To meet this need the manufacturers of A.B. Insulins are undertaking production of vials of 80 units per c.c. in addition to the 40 units per c.c. strength at present available.



# A.B. Insulins

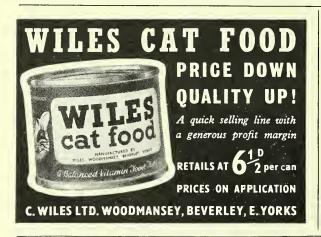
Joint Licensees and Manufacturers -

ALLEN & HANBURYS LTD

LONDON E.2

THE BRITISH DRUG HOUSES LTD

LONDON N.1



CROWN YOUR PHOTOGRAPHIC SERVICE WITH SUCCESS

You can rely on a high class Developing and Printing Service combining quality with speed by taking advantage of that offered by

#### TEMPO LABORATORIES LTD.

80 ST. JOHNS ROAD, TUNBRIDGE WELLS

MAIL ORDERS DESPATCHED SAME DAY

We are also LICENSED AGFACOLOR FINISHERS to the trade

HERE'S the STING

HERE'S the STING

Why is Calsol Milk a best seller? because doesn't separate—
Why is Calsol Milk a doesn't separate—
Why is Calsol Milk a doesn't separate—
Why is Calsol Milk a doesn't separate—
It doesn't solidify, creaminess on the little doesn't satin-smooth creaminess shelves!

It doesn't solidify, creaminess on the little doesn't separate—
It doesn't solidify, the home—and on your shelves!

HERE'S the THING

HERE'S the THING

HERE'S the THING

LEYLAND MILLER & COMPANY LIMITED.

LEYLAND MILLS WIGAN

## WELL-ADVERTISED BEST SELLERS

# **ferraniacolor**

WITH HOME PROCESSING KITS

Enables user to see results same day

Available in 35 mm., 20 exposures, in cassettes, 15/3 (refills 11/10), or F.20, 12/3.



## errania ROLL FILMS



*errania* 

35 mm. FILMS

P.3, Fine Grain Pan, and S.2 Superpanchro cassettes, 36 exposures, 8/9. Refill, 36 exposures 4/6. Refill-3 x 36 exposures, 12/1. Refill-10 x 36 exposures, 36/11.

# Ferrania FILM PACKS



A FINE CAMERA FOR NEW BUSINESS

# Ferrania 1BIS 24"×24"

Takes 12 pictures  $2\frac{1}{4}$  x  $2\frac{1}{4}$  on F20 film. Ferrania Primar 8.5 cm. lens. Synchronised for flash photography. Optical eye-level viewfinder. Instantaneous and time exposures. Die-cast all metal body with leather finish, modern tubular extension eliminates bellows trouble. Bushed for tripod.

ONLY £4 - 18 - 6 Ever Ready Case 21/3

**IBIS 27** Takes 8 pictures 2\frac{1}{4}" x 1\frac{5}{8}" on 127 film. Ferrania Primar 7.5 cm. lens. Brilliant optical eye-level viewfinder. Sturdy metal construction attractive leather finish. Safety device prevents accidental exposures.

Ever Ready Case 17/11

ONLY £3-15-0

NEVILLE BROWN CO.

77 NEWMAN STREET, LONDON, W.I.

Tel.: LANgham 7161 (10 lines)

#### Pattinson's REGISTERED BRAND PRODUCTS

- LIGHT & HEAVY MAGNESIUM CARBONATES B.P.
- LIGHT & HEAVY MAGNESIUM OXIDES B.P.
- MAGNESIUM OXIDE LEVISSIMA
- MAGNESIUM HYDROXIDE B.P.C.
- MAGNESIUM TRISILICATE R P
- CREAM OF MAGNESIA B.P.

Our Research Division welcomes enquiries from any manufacturer with a problem in which any of the above products are concerned. Please write to our Sales Technical Department if you require fuller information.

for the **PHARMACEUTICAL** Industry

## THE WASHINGTON CHEMICAL CO. LTD.

A member of the Turner & NEWALL ORGANISATION WASHINGTON · CO. DURHAM · ENGLAND

# SWIM CAP TIME!

MAKE A BIG SPLASH this season with the PUCK Swim Cap! Swimming, diving, bathing — PUCK Swim Cap fits tight. It keeps hair out of the eyes, gives complete protection from salt water and swimming bath chemicals. Makes a handy bathcap,

It's everybody's favourite for home and holidays. Yours too, when you see how well it sells!

Supplied in outers of 4 doz. caps (assorted colours). Ref. 707. Each packed in individua / cnvelope with window showing colour.

WHOLESALE AND EXPORT ONLY RETAIL PRICE 1/3 (inc. P. Tax)



GROVEWELL L. 656 FOREST ROAD, WALTHAMSTOW, LONDON, E.17

# 10th Price Reduction for CHLOROMYCETIN

Following continual production research, Parke, Davis & Co. Ltd., are pleased to announce a reduction of 10% in the price of all Chloromycetin products, effective from 1st June, 1954.

This is the tenth consecutive price reduction since Chloromycetin was introduced by Parke-Davis in 1949 and is further evidence of the Company's policy to pass on to the medical profession the benefit of their experience in the manufacture of this valuable antibiotic.

# CHLOROMYCETIN

The original Chloramphenicol



Parke, Davis & COMPANY, LIMITED (Inc. U.S.A.)
HOUNSLOW, MIDDLESEX. Tel: Hounslow 2361

AT HOUNSLOW Parke-Davis have one of the most modern plants in the world for the large scale manufacture of Chloromycetin and other synthetic chemicals.



WITH

## 'Benzedrine' Inhaler

The pressing need of the customer with acute nasal congestion is for something that will give him on-tap relief — the relief that he cannot get from his handkerchief. He cannot get relief from his handkerchief because it is the swollen membranes, not the accumulations of purulent mucus, that are blocking his nasal passages. What better or easier method do you know of for shrinking the membranes than 'Benzedrine' Inhaler? Carried in the

pocket or the handbag, it is always at the finger tips. 'Benzedrine' Inhaler is a high quality medical product that is always worthy of your recommendation.

Thirteen to the dozen, in compact and attractive display packs. Retail price, each Inhaler, 2/-.

Menley & James, Limited, Coldharbour Lane, London, S.E.5



WITH A BIG
INTRODUCTORY BONUS OFFER FOR YOU!

An extra  $12\frac{1}{2}\%$  profit on every 2 dozen ordered

An extra 25% profit on every 4 dozen ordered

This is not a once-only offer. Every order for Halex 5-star toothbrushes you send in up to July 31st will carry these generous bonus terms. So the quicker you get your orders in the more benefit you will receive. Your wholesaler can supply you immediately from stock. Get in touch with him now.



# THESE WILL HELP YOU SELL

One of these 11" x 8½" freestanding cards comes free with every order. It displays three Halex 5-star toothbrushes and gives an instant visual impression of the brush and the five features that make it a '5-star' toothbrush in more than name.



#### AND TO SHOW THE WHOLE OF THE HALEX RANGE

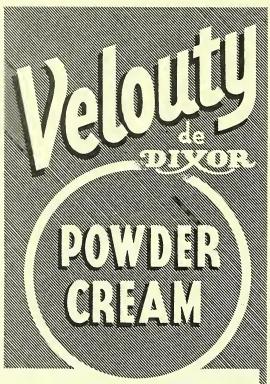
A novel display stand to carry up to six different Halex models --2 dozen brushes in ali. This display stand is *FREE* on request to HALEX.

# **HALEX**

HIGHAMS PARK · LONDON · E.4

(A DIVISION OF THE BRITISH XYLONITE CO. LTD.)

SHOWROOMS: LONDON: 9 CONDUIT STREET, W.I. MANCHESTER: 7 PALL MALL, MANCHESTER, 2



performs a special task in the art of achieving complexion beauty. It enjoys immense popularity and by displaying this excellent preparation you will take your share of this source of consistently good business.

Tubes packed in attractive display outers of one dozen, and jars in outers of half-dozen.

Popular Shades:

IVORY NATURAL **PEACH OCHRE** SUNGOLD

TUBES No. 2 No. 3 Trade 6/- doz. 9/6 doz. Retail I/2 each I/I0 each

JARS TRADE 13/2 doz. RETAIL 2/6 each



ondon

ST. LEONARD'S WORKS., MORTLAKE, S.W. 14

## The Best costs no more!

when ordering ZINC OXIDE insist on -

AND GET THE

Highest Standard of Purity

WHOLESALERS ONLY SUPPLIED **ENGLISH MANUFACTURE** USED THROUGHOUT THE WORLD

Guaranteed free from lead and arsenic. Its manufacture is supervised throughout by qualified chemists. Each particle size will pass 240 mesh with less than 0.1% residue.

We supply most Wholesalers, but should you have difficulty please contact

ATTIMER SLACKFRIARS, LONDON S.E.I

Telephone: WATERLOO 5800

Manufactured by THE FELLING ZINC OXIDE COMPANY

## NEW. from Scandinavia

# POWDER PUI

Soft, glamorous, foamy rubber puffs which hold and apply powder with a silken satiny smoothness as no other puff can. Washable-and easily sterilised with steam.

Sole Distributors for United Kingdom:

#### Alfred Franks & Bartlett COMPANY LIMITED

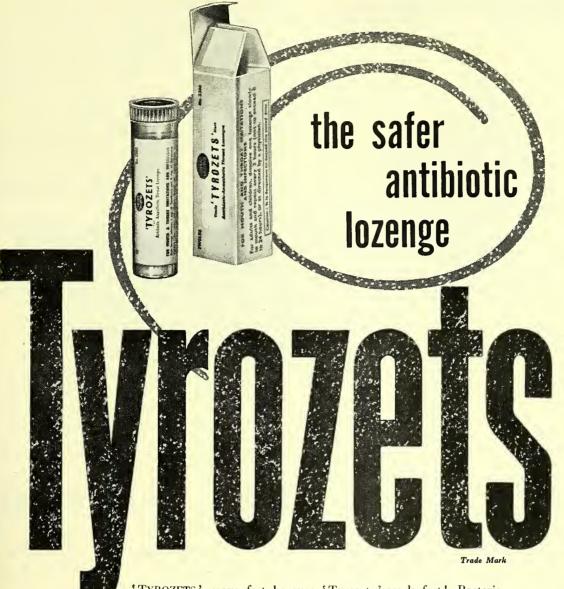
226/8 Grays Inn Rd., London, W.C.I

> Supplied in attractive counter display packs for quick selling.

In two sizes to fit standard compacts.

Retail 1/3 and 1/6





'TYROZETS' move fast because 'Tyrozets' work fast! Bacteriakilling tyrothricin and soothing benzocaine promptly relieve raw, sore throats. The prescription demand is heavy, and patients appreciate the pleasant taste of 'Tyrozets'.

'TYROZETS' are a unique lozenge that delivers 1 mg. of antibiotic tyrothricin and 5 mg. of soothing benzocaine directly to the site of pain and infection.

'TYROZETS' are packed in special plastic tubes, selling at 3/6 (exempt P.T.).

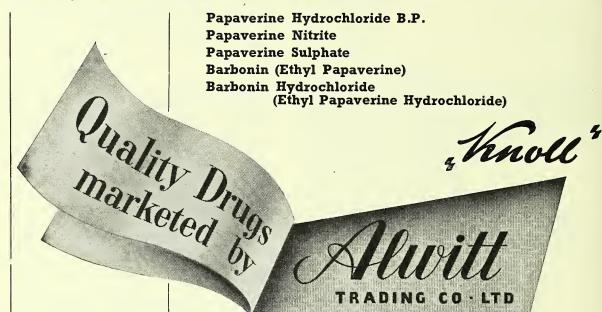
'TYROZETS' may be sold by pharmaceutical chemists without a prescription.

**CHEMISTS' BONUS PARCEL**  36 tubes or more at special rate of 27/- per dozen net for direct purchase.



Sharp & Dohme Ltd., Hoddesdon, Herts.

# Papaverine Alkaloid B.P.C.



I BROAD STREET PLACE, LONDON, E.C.2

Telephone: London Wall 7966 (5 lines)

Telegrams: Wosmater Ave London Cables: Wosmater, London

# Something they can trust

The public likes something reliable, something with dependable high quality. A faithful following is the public's response to trustworthy products that give real satisfaction.

Such is the popularity of

# CUTICURA SOAP CUTICURA OINTMENT CUTICURA TALCUM POWDER CUTICURA SHAVING STICK

There is a growing circle of discriminating people who appreciate high quality and insist on these soothing, protective, fragrant, mildly medicated Preparations, for care of the skin. Just display one each of these eye-catching firm family favourites in your attractive window, and make sure this steady all-the-year-round business comes your way.

CUTICURA SOAPS, OINTMENTS AND SHAVING STICKS HAVE ALWAYS CONTAINED CHLOROPHYLL



# viredrin

ırade mark

# compound male hormone tablets

# a new 'CPL' product now being introduced to the medical profession

#### Indications

Conditions associated with, or related to the male climacteric, anxiety-neurosis, neurasthenia, psychic impotence, hypochondriasis, depressive neuroses, involutional psychosis, tension-fatigue and syndromes featuring sexual asthenia, early masculine senility, melancholia and schizoid reactions.

#### Formula P.1., S.1., S7

Methyltestosterone B.P. 5.0 mg. Ethinyloestradiol B.P. 0.001 mg. Bromvaletone B.P.C. 50.0 mg. Carbromal B.P.C. 150.0 mg.

Dexamphetamine Sulph. B.P.C. 2.5 mg.

#### Packings & Prices P.T. Exempt, for dispensing only

25 tablets 64/- per doz., 100 tablets 240/- per doz., 250 tablets 560/- per doz. Supplies from all leading wholesalers. If difficulties are experienced, orders should be sent direct to us giving name of wholesale house through which we may invoice.



viredrin is freely prescribable on E.C.10.

# CLINICAL PRODUCTS LTD., RICHMOND, SURREY

Telephone RIChmond 4023/24, 4409, 5931

# THRSB AGRA W

This year, Agfa popularity is all set to pay out bigger dividends than ever before. The wide range of these world-famous cameras, combines precision construction and clean design with simplicity of handling and brilliant, optical equipment. No wonder, it's so easy for every photographer to get real results with Agfa cameras. No wonder demand is growing day by day.

Direct business your way, by ordering now. Agfa winners are money spinners.



A Handsome 2½" x 3½" Snapshot Camera. Ref. N Special built-in eye-level viewfinder. Two at Special built-in eye-level viewfinder. Built-in supplementary lens for portraiture and shots. Synchronised for flash. Instantaneous and B release socket. Scratch-proof covering. (B2) film. £3.16.2

Plastic ever-ready case 18s. 5d. Yellow filter 15s.



# CAMERAS ALWAY

Agfa BILLY I A Moderately-Priced 2\frac{1}{2}" x 3\frac{1}{4}" Camera. Ref. No. 1461. Agfa Agnar f6.3/105 mm coated, colour-corrected lens. Vario 3-speed shutter: B, 1/25th to 1/200th. Synchronised for flash. Shutter release on baseboard. 8 exp.  $2\frac{1}{4}$ " x  $3\frac{1}{4}$ " on 120 (B2) film. £10.14.6. Leather ever-ready case £1.14.4.

Agfa RECORD I The Most Popular 2\frac{1}{2}" x 3\frac{1}{2}" Camera in its Class. Ref. No. 1453. Agfa Agnar f4.5/105 mm coated, colour-corrected lens. Pronto 4-speed shutter: B, 1/25th to 1/200th. Delayed action. Synchronised for flash. Depth-of-field scale. 8 exp.  $2\frac{1}{4}$ " x  $3\frac{1}{4}$ " on 120 (B2) film. £18.13.0. Leather ever-ready case £2.8.6.

Telephone: LIBerty 4661

AGFA LIMITED · DEER PARK R 0

# RE MONEY SPINNERS





# SILETTE

b Precision 35 mm Miniature. Ref. No. 2071/335. rotar f3.5/45 mm coated, colour-corrected lens. SVS 8-speed shutter: B, 1 to 1/300th. Delayed Full X and M synchronisation. £22.10.2 . 2070/39. Pronto 4-speed shutter: B, 1/25th to

2070/39. Pronto 4-speed shutter: B, 1/25th to Delayed action. Synchronised for flash. £18.8.4 Leather ever-ready case £3.2.2

# 150 LETTE II

2¼" x 2¼" with Built-in Uncoupled Rangefinder. Ref. No. 1350/39. Agfa Apotar f4.5/85 mm coated, colour-corrected lens. Pronto 4-speed shutter: B, 1/25th to 1/200th. Delayed action. Synchronised for flash. Double-exposure prevention device. Depth-of-field scale. 12 exp. on 120 (B2) film.

£22.10.2

Leather ever-ready case £2.8.6 Plastic ever-ready case £1.7.2

# ET GOOD RESULTS!

Agfa ISOLETTE | Least Expensive Member of a Famous 2\frac{1}{4}" x 2\frac{1}{4}" Series. Ref. No. 1330/37. Agfa Agnar f4.5/85 mm coated, colour-corrected lens. Vario 3-speed shutter: B, 1/25th to 1/200th. Synchronised for flash. 12 exp. 2\frac{1}{4}" x 2\frac{1}{4}" on 120 (B2) film. \(\xi\$12.10.4. Leather ever-ready case \xi\$2.8.6. Plastic ever-ready case \xi\$1.7.2

Agfa ISOLETTE II Favourite of 2¼" x 2¼" Enthusiasts The
World Over. 3 Models. Agfa Agnar or Agfa
Apotar f4.5/85 mm coated, colour-corrected lens.
Synchronised for flash. Depth-of-field scale. Double-exposure
prevention device. 12 exp. 2¼" x 2¼" on 120 (B2) film.



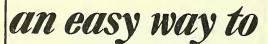
1335/37. Agfa Agnar m lens. Vario 3-speed /25th to 1/200th, B & T. £15.5.5 Ref. No. 1335/39. Agfa Agnar f4.5/85mm lens. Pronto 4-speed shutter: 1/25th to 1/200th, B & T. Delayed action. £17.10.0

Ref. No. 1335/35. Agfa Apotar f4.5/85mm lens. Prontor-S 8-speedshutter: 1 to 1/300th, B & T. Delayed action. £20.18.3

Leather ever-ready case £2.8.6 Plastic ever-ready case £1.7.2

IBLEDON FACTORY ESTATE · LONDON · SW19

odines





# sell Vitamin C

ALSO SYRUP OF BLACKCURRANT B.P.C. RASPBERRY B.P.C. • 6 to I CONCENTRATED RASPBERRY JUICE BARNETT & FOSTER LIMITED

> ALSO MANUFACTURERS OF "SUN-TANG" THE WHOLE ORANGE DRINK WITH ADDED GLUCOSE Established in the Year 1858

"Niagara" Works, Eagle Wharf Road, London, N.I. Telephone: CLIssold 7132



Now is the time to order and display!

Retail Price - I/- per packet

Trade Price - 8/- per dozen

Carriage paid quantities

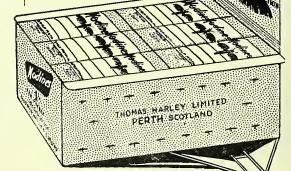
Minimum 6 dozen - 7/9 per dozen 12 dozen - 7/6 per dozen Smaller quantities at 8/- per dozen

net, postage extra.

Make sure of getting your share of the Modines business. Have good supplies in stock. Excellent profits are assured as can be seen from the generous trade terms outlined above. Place your order now through your usual wholesaler or the Sole Distributors for England, Wales and Scotland.

#### ALMAS JUNIOR STREET, LEICESTER.

SCOTLAND. RODINE WORKS, PERTH.



Depots at: LONDON—140-142 St. John St., E.C.I. GLASGOW—29 Waterloo St., C.2. A PRODUCT OF THOMAS HARLEY LTD.,



NEW Pocket pack
12 Tablets 1/6d.

13 - to - the - dozen INTRODUCTORY OFFER



9/- per dozen

plus 25% P.T. Retail **1/6**d.

TABASAN is one of the most successful selling lines in Ayrtons world-wide export business.

AYRTON SAUNDERS

HANOVER STREET · LIVERPOOL

🗕 Telephone Royal 8282 🚥



### THE HAIRQUILL BONUS PLAN gives you 68% PROFIT on cost

GET YOUR BONUS SUPPLY of Hairquills into stock and display it as early as possible — ready to cash in on the demand for the Hairquill from holiday girls and housewives alike. Last year thousands of chemists who bought the Hairquill short could have sold twice as many.

The Hairquill's 96 flexible little fingers are ideal for removing hair tangles after bathing or beach games, and for daily scalp massage. The Hairquill encourages waves after shampooing. Made in four lovely

pastel colours. Convenient display holder for counter use. Unbreakable and easily sterilised in boiling water.

| -   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|-----|-----------------------------------------|
| 3   | USUAL BONUS                             |
| 3   | TERMS TERMS                             |
| 3   | Price to retailer 33/6 doz 30/2 doz.    |
| 3   | Price to public                         |
| 3   | inc. P.T 4/11 each 4/11 each            |
| 3   | Profit on cost 50% 68%                  |
| -   | Minimum order to qualify                |
| -   | for Bonus Terms 2 DOZEN                 |
|     | Closing date for orders                 |
|     | on Bonus Terms 31 JULY 1954             |
| - ( |                                         |

Order now on these BONUS TERMS
from your USUAL WHOLESALER

Inquiries for special bonus terms for wholesalers invited

HUGHES BRUSHES LIMITED, 240-242 BATH ROAD, SLOUGH, BUCKS.

Telephone: SLOUGH 23218



implantation of hexestrol or implantation of stilbestrol. Of these, the first is difficult and dangerous. The others, safe and simple though they are, have not proved ideal in practice; for, while hexestrol gives the heavier birds and the more pronounced "feminisation", stilbestrol gives the finer flesh.

Now comes a new caponising pellet—a pellet that combines hexestrol and stilbestrol (7.5 mgm. of each), so giving the advantages of both. Issued only after convincing trials, this new poultry-implant, marketed as 'Combestrol', has been found to stimulate as rapid gains in weight and to feminise male birds as fully as hexestrol implanted by itself, yet at the same time to tenderise their flesh as amply as stilbestrol used alone.

Poultry-keepers will want to try 'Combestrol'. When they see results, they never will go back to older caponising methods. Packs and retail prices of 'Combestrol' are: tubes of 25, 3/6; bottles of 100, 10/6; bottles of 1000, 96/-. Order stocks NOW.

# 'COMBESTROL'

Hexœstrol and Stilbœstrol (Veterinary) for Implantation



BURROUGHS WELLCOME & CO. (THE WELLCOME FOUNDATION LTD.) LONDON

# COW & GATE



Something new for Baby and something very comforting. The new Cow & Gate Baby Powder is a delicate and delightful preparation ideal for Baby's tender skin. Its cooling, soothing influence is just what Baby needs after the bath or during the heat of the day. It brings contentment, freedom from irritation - and encourages sound, refreshing sleep. Lightly perfumed, slightly borated, pure and refined.

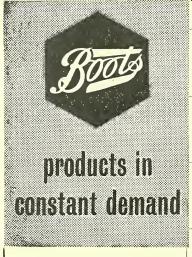
#### FOR COMFORT AND CONTENTMENT

Display Stands and promotion material available upon application to:

## & GATE LIMITED

GUILDFORD

5131



Literature and further information available from the Wholesale and Export Dept., BOOTS PURE DRUG CO. LTD., NOTTINGHAM, ENGLAND. (Nottingham 45501.)

London Sales Office, 71 Fleet Street, E.C.4. (Central 0111.)

| PRODUCT                                                                                                           | PACK                                                    | RETAIL PRICE                                            | 3                                       |
|-------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|-----------------------------------------|
| Alimex  A palatable fluid preparation of aluminium hydroxide and magnesium hydroxide.                             | 8 fl. oz.<br>80 fl. oz.<br>(dispensing pack)            | $2/I_{\frac{1}{2}}^{\frac{1}{2}} + 4\frac{1}{2}d.P.Tax$ |                                         |
| Fenox Nasal Drops  Phenylephrine and naphazoline in a non-oily viscous vehicle of adjusted pH and tonicity.       | ½ fl. oz.<br>dropper bottle                             | 2/6                                                     | Prices                                  |
| Ocusol Eye Drops A unique stable combination of sul- phacetamide and zinc sulphate in a buffered viscous vehicle. | ½ fl. OZ.  dropper bottle  20 fl. OZ. (dispensing pack) | 3/-<br>67/6                                             | Prices subject to usual trade discounts |
| Blandlax                                                                                                          | 8 fl. oz.                                               | $2/I_{\frac{1}{2}} + 4\frac{1}{2}d.P. Tax$              | al tra                                  |
| An oil-free laxative containing sodium carboxymethylcellulose and magnesium hydroxide.                            | 16 fl. oz.<br>80 fl. oz.                                | 3/10 + 8d. P. $Tax15/5 + 2/7d$ . P. $Tax$               | ide discoi                              |
| Mycota  Compound undecylenic acid preparations for the treatment of tinea pedis and other dermatophytoses.        | CREAM<br>tube<br>POWDER<br>sprinkler tin                | 2/6d<br>2/6d                                            | ints.                                   |
| 'Viules' Single-dose injections in disposable cartridges.                                                         | Details of range and prices on application.             |                                                         |                                         |
|                                                                                                                   |                                                         | SI                                                      | 97B                                     |



# ARTHIGON

A remarkable new

DEEP-PENETRATION CREAM for the positive and sustained relief of

RHEUMATISM · FIBROSITIS
NEURITIS · LUMBAGO · SCIATICA

or similar complaints

# On sale to the public MAY 31st

We are confident that in ARTHIGON we have a product of exceptional merit in its field. Five years of laboratory research and clinical tests have preceded its marketing.

Such is our belief in ARTHIGON—available, as with all Maw's products "From Chemists only"—that we extend to all our friends in the Trade the following offer. We will gladly supply a counter display outer containing six jars of ARTHIGON on a sale-or-return basis (not charged before August 31st earliest). This carries a 50% nett profit of 21/-.

ARTHIGON will be launched on May 31st by the largest national advertising campaign in Maw's history. Leading newspapers and periodicals will ensure a readership of many millions weekly for the ARTHIGON story—and ARTHIGON sales.

Take your share of this big new business. If you have not had your 6-jar parcel, please send for it today—and thus MAKE YOUR PROFIT FIRST!



Retail price 12/3

S Maw Son and Sons Limited Barnet England



# THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

Official organ of the Pharmaceutical Society of Ireland and the Pharmaceutical Society of Northern Ireland

Volume 161

May 29, 1954

No. 3875

#### CONTENTS

| A Civic Occ      | asion at   | Houns                                          | low    |         | 552 |     |
|------------------|------------|------------------------------------------------|--------|---------|-----|-----|
| A Unique Pa      | ris Instit | ution                                          |        |         | 557 |     |
| Actions over     | Shellac    | Certifica                                      | ates   |         | 547 |     |
| Branch Repr      | esentativ  | es' Mee                                        | eting  |         | 544 |     |
| British Fine     |            |                                                |        |         | 560 |     |
| Display Cent     | re for (   | Glass                                          |        |         | 548 |     |
| French Phar      | macists'   | Lectur                                         | е То   | ur :    | 550 |     |
| Hospital Pha     | rmacy F    | orum                                           |        |         | 558 |     |
| Leading Artic    |            |                                                |        |         |     |     |
| Representa       | tives' D   | iscussio                                       | ns     |         | 555 |     |
| Overseas T       |            |                                                |        |         | 555 |     |
| Newcomer         |            |                                                |        |         | 556 |     |
| Medical Abs      | tracts .   |                                                |        |         | 558 |     |
| Onward from      | Galen .    |                                                |        |         | 557 |     |
| Pharmaceutic     | al Socie   | ty of N                                        | lorthe | ern     |     |     |
| Ireland: C       |            | _                                              |        |         | 560 |     |
| Pharmacies of    | f Britair  | <u>—24                                    </u> |        | :       | 553 |     |
| Scottish Exec    | utive Ele  | ection                                         |        |         | 559 |     |
| Topical Refle    | ections .  |                                                |        |         | 543 |     |
| Zanzibar Clo     | ves .      |                                                |        |         | 563 |     |
| Births           | 548        | Persona                                        | lities |         |     | 548 |
| Branch Meetings  | 546        | Price C                                        |        | s       |     | 564 |
| Business Changes | 546        | Print a                                        | nd Pu  | blicity |     | 563 |
| Coming Events    | 564        | Trade I                                        | Marks  |         |     | 564 |
| Company News     | 546        | Trade :                                        |        |         |     | 549 |
| Correspondence   |            | Trade I                                        |        |         |     | 561 |
| Deaths           |            | Week in                                        |        |         |     |     |
| Marriages        | 548        | Wills                                          |        |         |     |     |
| New Products     | 549        | World                                          | Trade  |         |     | 563 |

INDEX TO ADVERTISERS, Pp. 5 & 6.

EDITORIAL AND PUBLISHING OFFICES

28 ESSEX STREET, STRAND, LONDON, W.C.2

Telephone: Central 6565

Telegrams: Chemicus, Estrand, London

Branch Offices:

BIRMINGHAM, 2: 111 New Street.

Phone: Midland 2921
GLASGOW: 24 Dixon Road, S.2.

Phone: Pollock 4802

MANCHESTER: 344 Washway Road, SALE. *Phone: Sale* 4595 LEEDS, 6: 32 Wynford Rise, West Park. *Phone: Leeds* 78438

ANNUAL SUBSCRIPTION, which includes The Chemist and Druggist Diary and Year Book, £2. Single copies one shilling each.

New..

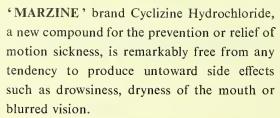
for the

prevention

or relief of

Motion

Sickness



In clinical trials it was given to over four thousand steamship passengers, the majority of whom reported that the relief obtained was excellent. Similar results were obtained among air travellers. Where sickness had already occurred, 'Marzine' reduced or abolished the symptoms in practically all cases. Side effects in all groups were no more than 4 per cent.

'MARZINE' is of distinct value, too, in the treatment of vomiting of pregnancy and is worthy of trial in the symptomatic management of Ménière's syndrome.

'Marzine' is usually given in a dose of 50 mgm. (one product) three times a day before meals for adults. For children, half this dose is advised. 'Marzine' is issued in tubes of 10 at 2/6 plus 6d. purchase tax and bottles of 100 at 20/- plus 3/9 purchase tax (prices subject to usual discount).

# 6 MARZINE 9

CYCLIZINE HYDROCHLORIDE

- leaves the individual alert



BURROUGHS WELLCOME & CO. (The Wellcome Foundation Ltd.) LONDON

Volume 161

MAY 29, 1954

No. 3875

# New D.D. Exemptions

#### FOR FOREIGN FORCES IN BRITAIN

THE Home Office is shortly issuing an Order in Council that will exempt foreign forces in Britain from the requirements of the Dangerous Drugs Act, 1951. A special provision will empower medical officers of the United States Forces, provided they have been registered by the General Medical Council in Britain, to issue Dangerous Drugs "for any proper

medical purposes.

At the request of the Home Office the Pharmaceutical Society has issued an explanatory notice to members. The notice states that the United States Services will normally continue to obtain their supplies of Dangerous Drugs through American Forces channels. Only in an extreme emergency will a medical officer issue a Dangerous Drugs prescription that will be pre-sented to a British pharmacist. The type of emergency envisaged is a road or rail accident or aircraft disaster at which a medical officer happens to be present and rendering assistance.

Pharmacists are therefore being advised not to dispense prescriptions for Dangerous Drugs issued by a United States Services medical officer unless they are satisfied without any reasonable doubt:—(1) About the bona-fides of the medical officer and his regis-Council; (2) that an emergency has occurred that is sufficiently urgent to justify obtaining the drug from a source other than a United States Services medical depôt. Reliance must not be placed upon the mere statement of the person presenting the prescription. That advice is recognised to place "a substantial onus" upon the pharmacist, but it is considered unlikely that many such prescriptions will be issued. No pharmacist should on any account dispense a prescription written by a United States medical officer for diamorphine or preparations containing it.

PHARMACISTS' UNION Views on apprenticeship

AT a meeting of the council of the Registered Pharmacists' Union held in London on May 12, consideration was given to the question of pre- or post-graduate training. A proposal was put forward that the educational scheme should be re-orientated to provide a thorough knowledge of the National Formulary at the Intermediate level so that if the student proceeded from there to his practical training he would be more competent to deal with much of the routine work. Thus he

could concentrate his attention on the less frequently met and more intricate techniques occasionally required. It was suggested that the scheme should be worked out more fully and reconsidered later. Because of the recent sidered later. Because of the recent death of two R.P.U. council members (Messrs. Churchfield and Thomas) the council agreed that members should be invited to nominate candidates for consideration by the council for co-option to fill the two vacant seats. Two appli-cations for membership were reported since the previous meeting and were approved. Reports were received on various staff pension schemes and they were reviewed by the council. Steps to ensure that absent members' views could be given voice at the Pharmaceutical Society's annual meeting, if required, were arranged for. Satisfaction was expressed at the coming into force of the union's free insurance scheme for members. As ballot cards are still being received regarding a proposed revision of the rules it was decided to leave the matter for the next meeting, by which time it was hoped all mem-bers would have expressed their

#### 1954 ANNUAL MEETING Shortest on Record?

BY contrast with its counterpart of BY contrast with its counterpart of 1953, the annual meeting of the Pharmaceutical Society on May 19 went smoothly on its streamlined way to certainly the speediest end in recent years. The president announced the election results (C. & D., May 22, p. 517), congratulated the auditors, welcomed the new members of Council comed the new members of Council, praised the fifteen years' valued work of the defeated Mr. F. C. Wilson, and gave an explanatory commentary on the Society's annual report. He tried to provoke discussion by asking whether the Society could long delay pressing for the reforms believed advocated in the still unpublished Linstead report on hospital pharmacy; by throwing out a tiny beam of hope to contractors that EC10's for Penicillin Act drugs might not always have to be sent back to prescribers if incom-

plete; and by informing members that manufacturers of ethical proprietaries were being asked to indicate on labels whether their products were S.4. He even declared most pointedly that the subject of assistants in pharmacy had never been on the agenda during his term of office. But it was no good. No resolutions had been put on the order paper and no questions were going to be put at the meeting. Slightly nonplussed at so unprecedented a situation, the president declared the meeting closed and members found their tongues only in private conversations as they left the hall.

#### PURCHASE TAX Small plastic boxes taxable

THE Commissioners of Customs and Excise have decided that rigid boxes (other than cylindrical boxes) made wholly of plain or coloured plastic with hinged, push-on or slide lids and of a total internal capacity not exceeding 10 cu. in. shall be chargeable with tax at 25 per cent. under group 11 (a) from July 1.

Exceptions to the rule are: Exceptions to the rule are:

(a) Boxes which are clearly specialised for use only as commercial containers, e.g., by having the brand name of the contents permanently and obviously marked on the outer surface of the lid;

(b) flat surfaced rectangular boxes which are devoid of any decoration whatsoever; and

(c) boxes which have features identifying them with provisions of the Tax

fying them with provisions of the Tax



GOLF FOR OFFICE GIRLS: Half a dozen girls employed in departments of Aspro, Ltd., Slough, are taking golf lessons using clubs provided by the company. In the picture Janet Cross (a secretary in the production division) is giving hints to Betty Goffin (overseas division) and Rita Couldrey (an accounting machine

Schedule other than Group 11 (a), e.g., soap boxes. As hitherto, these will be treated in accordance with the appropriate provision.

## RHEUMATICS' HOSTEL Official opening

A HOSTEL for rheumatic sufferers at Bracken Hill House, Northwood, Middlesex, was formally opened on May 25 by Miss M. P. Hornsby-SMITH (Parliamentary Secretary, Ministry of Health) who said that the Ministry would take a great interest in the venture, the fundamental idea of which was to enable patients to be temporarily resident near a hospital [in the present instance Mount Vernon Hospital] possessing specially experienced medical staff. It was of particular interest that patients for the twenty-five beds in the hostel would be drawn from industry. Earlier SIR WALTER PUCKEY (chairman of British Rheumatic Association Homes, Ltd. (the promoters of the hostel scheme)) said that Bracken Hill House was the first of a series of such hostels to be opened near hospitals. Between two and three million people in Britain suffered from rheumatic disorders. Rheumatism was the biggest cause of sickness in industry and, therefore, the work of the hostels would help British production in fac-tories: Furthermore the disorders cost about £250 millions per annum in medical care and loss of production. If sufferers could receive efficient early diagnosis, modern treatment and rehabilitation, 60 per cent. of cases could be cured or checked.

#### ATROPHIC RHINITIS

First case amongst British pigs

FOR the first time on record, the existence of atrophic rhinitis has been confirmed among pigs in Great Britain. The infection was introduced by an apparently healthy Landrace pig imported into England from Sweden. disease is transmissible by contact. The early symptoms are sneezing and snuffling, leading to unthriftiness, and later in some instances to progressive de-formity of the face. The disease may be difficult to detect in adult pigs, but is more readily recognisable in young pigs. In an affected litter, all piglets may not show symptoms but all may be infective as adults. No further importation of Landrace pigs is being permitted from Sweden for the time being and orders are being made deelers. being and orders are being made declaring atrophic rhinitis a disease for the purposes of the Diseases of Animals Act and providing for the isolation, detention and slaughter of affected and contact pigs.

## TRADE CATALOGUES Exhibition in London

A HUNDRED trade catalogues are being selected by the British Federation of Master Prieters and the Council of Industrial Design for an exhibition to be opened in London in October, and subsequently to tour provincial centres. Manufacturers are invited to submit printed matter illustrating and/or listing goods or services for sale or hire, excluding prestige booklets on particular products or companies, technical

literature and instruction booklets, to:—The British Federation of Master Printers, 11 Bedford Row, London, W.C.1, before June 30. All catalogues submitted must have been printed in Great Britain since January 1, 1950.

## U.K.-ARGENTINE TRADE Discussions in London

TRADE and payments talks between representatives of the United Kingdom and Argentina was held in London recently. The delegations were not negotiating a new agreement to replace the present agreement which expires in June, but were making a general review of trade and financial relations between the two countries. One of the subjects discussed was the remittances of past British earnings from investments in Argentina. A considerable sum is due to British investors because of Argentina's reluctance to permit the amounts to be remitted abroad.

#### **GLYN-JONES FUND**

New grants suspended

BECAUSE of the extension of the final course of study for the Pharmaceutical Society's qualifying examination to two years, it has been necessary to allocate the income of the Glyn-Jones memorial fund for the current year for the benefit of applicants assisted to commence the final course in 1953. The trustees express regret at being unable this year to invite new applications for assistance.

## PRICE FIXING Bank chairman's criticism

SIR Eric Carpenter (chairman, Williams Deacon's Bank; past-president, Manchester Chamber of Commerce; and executive member, Dollar Exports Board) at a luncheon given by the Purchasing Officers' Association recently, said that trade associations had generally been "loudest in protesting against Government-imposed controls" yet, by price fixing, had tended to do privately what they had resented the Government doing by statute.

#### EUROPEAN PAYMENTS

U.K.'s deficit with Union reduced THE United Kingdom had a net surplus with the European Payments Union of £28,173,928 for the month of April. That reduces the U.K.'s cumulative accounting deficit with the Union to £254,574,644.

#### LOCAL NEWS

Risks from New Substances

FRESH risks of occupational diseases were arising from new substances—some of them radioactive—being used in modern industry and agriculture, said Dr. D. G. EVANS (assistant general secretary, Medical Practitioners' Union), when he addressed a health conference recently organised in Edinburgh by the Socialist Medical Association. Dr. Evans said that in agriculture, modern insecticides presented a real danger to health if proper precautions were ignored—yet there was no

statutory obligation on farmers to provide safeguards for their workers. The most common occupational complaints — apart from those caused by dust—were now dermatitis and carbon-tetrachloride poisoning.

1953 Drug Offences in Liverpool

LIVERPOOL chief constable in his annual report states that the extent to which Dangerous Drugs were sold or distributed in the city during 1953 caused the police very little anxiety. Of fifty-one persons prosecuted, twenty-eight were Chinese who were responsible for offences concerned with opium; others confined themselves to Indian hemp. Quantities of drugs seized were small except in two instances (approximately 1 and 2 lb. of Indian hemp). Prosecutions were in respect of opium, Indian hemp, morphine and pethidine.

No publicity

DEWSBURY Executive Council at a recent meeting rejected a proposal that a summary of the Council's findings in a case of inaccurate dispensing should be made public. The chairman said that the case arose from a test prescription taken by the Council's agent. The respondent, who had been reprimanded, had admitted that the drug had been inaccurately dispensed, but the council's analyst had stated that the concentration of the drug in the sample dispensed would not seriously affect its physiological action.

#### **Donations to Leeds University**

THE council of Leeds University recently acknowledged the following donations to the school of chemistry of the university: £300, for research, from Monsanto Chemicals, Ltd., London; and £130, to purchase a low-temperature refrigerator for organic chemistry, from Imperial Chemical Industries, Ltd., London.

## IRISH NEWS

Health Service Investigation

AN informal inquiry into the working of the Health Service in Northern Ireland has been ordered by the Minister of Health and Local Government (Dame Dehra Parker). It will be conducted by two members of regional hospital boards in Great Britain with the possible addition of a person with local knowledge. The Minister told Parliament on May 20 that she was still satisfied that there was no case for any general, formal inquiry into the Service. She was anxious, however, that is should not be thought that there was any reluctance, either on her part or on the part of the statutory bodies, to have any questions examined which might be causing genuine concern. Those invited to carry out the inquiry would look into any questions which members of the Senate and the House of Commons might raise. She said that if there was to be a frank expression of views the talks could not take place in public. The various statutory bodies would have an opportunity of submitting their views on the services for which they were responsible. The public would not be asked for evidence.

#### **NEWS IN BRIEF**

Improved Rota Requested.—Sunbury council is writing to the Middlesex Executive Council to request improvements in the hours of the rota service provided by Sunbury chemists.

Industrial Injuries Insurance. — A reciprocal agreement between Great Britain and Denmark to pay benefits under industrial injuries insurance schemes in operation in the two countries came into force on May 1.

Exchange of Grey Insurance Cards.—Grey National Insurance cards expire on June 6 and should be exchanged for the new mauve ones at a local Pensions and National Insurance Office as early as possible between June 8 and 12.

Birmingham Students Visit Works.—A party of students with Dr. J. Priestman and members of the staff of the department of pharmacy and biology, Birmingham College of Technology, visited the laboratories of Thomas Kerfoot and Co., Ltd., on May 4.

Atomic Energy Appointment.—The Department of Atomic Energy announces that Dr. Basil F. J. Schonland, C.B.E., F.R.S. (head of the Bernard Price Institute of Geophysical Research, University of the Witwatersrand, South Africa) is being appointed deputy director of the Atomic Energy Research Establishment at Harwell.

Insecticide Manufacturers' Officers.—Officers elected by the Association of British Insecticide Manufacturers for 1954-55 are:—Chairman, Mr. N. K. Smith (Murphy Chemical Co., Ltd.), Vice-chairman, Mr. M. N. Gladstone (Pest Control, Ltd.); Treasurer, Mr. H. J. Jones (Hemingway & Co., Ltd.).

Radioactive Cylinder Missing.—Salford, Lancs, city police have appealed to members of the public to keep watch for a small, radioactive aluminium cylinder which is missing from a factory at Salford and which, the police state, could endanger the health of any person who keeps it in his possession.

Memorandum on Mosquitoes.—The Ministry of Health "Memorandum on Mosquitoes" (H.M. Stationery Office, price 1s. 3d.) has been revised and copies sent to all medical officers of health in areas of known indigenous malaria on the East, South-east and South coasts as well as to medical officers at all ports (sea and air).

Works Safety Conference. — The Association of British Chemical Manufacturers is organising a conference, to be held in Harrogate in November, in which delegates will visit chemical works to observe safety measures and devices in operation. Those interested are invited to contact the Association's intelligence officer, Cecil Chambers, 86 Strand, London, W.C.2.

#### SPORT

Golf.—London Chemists' Golfing Society, Chigwell golf club, on May 20. Medal competition for Yardley cup won by E. D. S. Offord, 71 net. Bogey competition for Harker Stage prize won by A. H. Newcombe, 3 down. Other leading scorers: Medal, A. H. Newcombe 74, R. E. B. Offord 74, E. G. Nice 75, Bogey, E. D. S. Offord 2 down, E. G. Nice 4 down, B. F. Tisdall 4 down.

## TOPICAL REFLECTIONS

By Xrayser

#### Infectious Diseases Summarised

Article 21 of the series "Essentials of Treatment" (pp. 535-36) is a summary of the preceding descriptions of infectious diseases. For those who may not have read these descriptions as carefully as they could wish it is therefore of particular value. By comparing the diseases with others of a similar nature it is shown that treatment of them may differ widely. For instance, typhoid needs a different approach from malaria. We come next to diphtheria, which "provides an excellent example of the effect of the widespread application of prophylactic immunisation." Whooping cough immunisation "is still not so efficient as that of diphtheria, and it depends, too, upon the efficacy of a vaccine rather than on a toxoid Tuberculosis comes within the scope of this summary. preparation." Your contributor points out the significance of the Mantoux test, and adds that the future for this disease, so far as drug therapy is concerned, "depends upon curative treatment." More than one medical man of my acquaintance has quoted with approval a principle which may be worded thus: "Do not rush after what is new."

#### Old Pharmacy Exteriors and Interiors

On looking at the reproduction on p. 532 of a Royal Academy picture of the New Bond Street front of Savory & Moore, Ltd., my first impression was to note the absence of large specie jars from the windows. I cannot claim that they were not there when the artist was at work, for I do not know. Yet artists sometimes take strange liberties. At 225 Oxford Street, not far away, the proprietors and staff of John Bell & Co., were indignant when it was found that a painter had depicted the floor of the manufacturing laboratory behind the shop as being in picturesque disorder. Happily the old shop front is in possession of the Wellcome Historical Medical Museum. At the corner of New Bond Street and Oxford Street was the West End branch of Corbyn, Stacey & Co., and near it the premises of Peter Squire, chemist to Queen Victoria. These were dignified but not, when I knew them, very old. The last time I passed them the Squire pharmacy had become a bank, and the Corbyn a shoe shop. Not many years ago Blake, Sandford & Blake had a corner shop in Piccadilly (they are now in Dover Street nearby), and Godfrey & Cooke were in Conduit Street. Other familiar names carrying on business within short distances of these might be added, though not all attained the distinction of a show at the Royal Academy.

#### Gapers

While reading Mr. Peter Smithers's "The Life of Joseph Addison" (1954), which has entailed much research, I came upon a brief reference to Dutch gapers, quoted from The Spectator of April 24, 1711. Addison there notes that the Dutch "hang up in several of their streets what they call the sign of the Gaper, that is, the head of an idiot dressed in a cap and bells, and gaping in a most immoderate manner." Neither the famous essayist nor his learned biographer seems to have known the close connection of this emblem with the Dutch drug trade. An authoritative account of the matter was given by Professor P. Van der Wielen in your Special Issue of June 28, 1930. "The salamander was especially the emblem of the pharmacist . . . an indication of his ability to prepare chemicals. The mortar was more generally used by all pharmacists, and the gaper by unqualified vendors of drugs. . . . Entirely Dutch, however, is the gaper; that is used nowhere else in Europe. It is employed in Holland, not only by the qualified pharmacist, but also by the unqualified drug sellers.... The gaper... shows a great variety of shape and colour. It may be a soldier, a moon, a man with a monkey, a 'gentleman' in top hat, a bearded old man, a fool with a fool's cap and so forth." Professor Van der Wielen added what he thought was the most probable conjecture concerning the origin of the sign.

# Hospital salaries: apprentices: hours of service

#### BRANCH REPRESENTATIVES' MAIN SUBJECTS FOR DISCUSSION

HOSPITAL salaries, apprenticeships, and hours of service were the subjects that aroused most controversy at the Pharmaceutical Society's Branch Representatives' meeting held in London on May 20. The chairman was the president of the Society (Mr. T. Heseltine).

At the start of the meeting MR. R. GOODE, Harrow, cast doubt on whether it was in order to consider motions affecting hours of business or remuneration. The President replied that legislation had altered since the Jenkin case, and the new constitution had altered things even further. The Council thought it was correct to have those subjects on the agenda. But the president gave his assurance that the Council would give the matter further consideration.

#### Diploma in Biochemical Analysis

MR. C. H. ROBINSON, Mansfield, complained that there had been no report since it was stated in 1953 that a resolution, passed in 1952, on the diploma in biochemical analysis was under active discussion. The PRESIDENT hoped that difficulties would be elucidated before 1955.

A North Staffordshire Branch resolution calling upon the Council to approach manufacturers to discourage the production of gaily coloured tablets that were a potential danger to children was proposed by Mr. C. E. Turner. The President said that the Council was in close contact with the British Medical and Coroners' Associations on the subject, which was a complex one. The appropriate authorities would certainly be approached. Mr. H. Williams, Reading, suggested a new angle: that all dangerous tablets should be coloured and innocuous tablets left white. The resolution was carried.

MR. E. E. LOCKER moved a resolution from Reading Branch that the candidate with the eighth highest number of votes at the previous annual election should be co-opted to the Council should a vacancy occur.

MR. JARVIS GRAVES, Exeter, protested that the election was not for a list of co-option candidates. MR. H. W. TOMSKI, opposing the motion, suggested that members did not vote on a "pool" system. MR. J. W. B. FISH, Folkestone, suggested that if there were only eight or ten candidates the last two or three might be most unsuitable, as shown by the ballot.

Proposing an East Metropolitan Branch amendment "and so on down the list of candidates . . . " Mr. L. Norwich asked who told the Council who was the most suitable for membership of the Council. The Council did not have to co-opt a member. Mr. H. L. Crossley, East Walthamstow, seconding the amendment, demanded a reasonable explanation why co-option was preferred.

THE PRESIDENT said that the old system had worked well up to the

present. On the most recent occasion a retailer living in Scotland had resigned. The Council felt it right to co-opt a Scotsman and a retailer to replace him. It felt that it would be the members' wish to co-opt someone living as near as possible, and in a similar capacity, to the member he was replacing. The "number eight" had been seriously considered.

#### A Principle to Apply

MR. S. DURHAM, Sheffield, said that that principle should be applied in coopting a retail employee pharmacist. The PRESIDENT pointed out that in the past ten years, so far as he could remember, there had been no resignation of a retail employee pharmacist. The amendment was lost. MR. H. L. CROSSLEY suggested that candidates should represent pharmacy as a whole. The PRESIDENT: It would be wrong for the Council to be represented by only one type of occupation. The resolution was defeated.

MR. D. K. WAITE proposed a Bradford Branch motion calling for confirmation of any revision of the new Charter by a simultaneous Branch Representatives' meeting and special or annual meeting. He said that, in one quarter, a retention fee of £10 had been mentioned, and that was the reason for the resolution

reason for the resolution.

MR. H. WILLIAMS, Reading, asked what was meant by simultaneous. MR. M. JACKSON, Leeds, pointed out that the Charter could only be altered by an annual meeting, but the Council could alter the by-laws.

THE REGISTRAR (Mr. F. W. Adams) explained that the Charter could now be changed by a three-quarter majority of the Council, confirmed by a three-quarter majority at a general meeting of the Society. After that, approval of the Privy Council had to be obtained. He suggested that it would be useful if the proposer would indicate the relationship he wished to see between the general and the Branch Representatives' meetings. Mr. WAITE replied that a resolution by the Branch Representatives' meeting would be a first voice of the members.

THE REGISTRAR said that the Council took the view that the rights of the individual member should be preserved. Members should be equal in status in taking decisions. Hence Branch Representatives would be present at a general meeting in their individual capacity. The motion was carried.

#### Hospital Pharmacists' Salaries

A Hounslow motion, calling for improvement in hospital pharmacists' salaries to avoid a collapse of the hospital pharmaceutical service, was proposed by MISS E. M. BRISTOW. MR. WATERMAN, seconding, said that the medical student came into contact with the hospital pharmacist. If he was to gain a favourable impression, salaries must be adequate to attract the best type of entrant to hospital pharmacy.

The attitude of doctors affected all members of the profession.

In response to an interruption on whether it was in order to discuss remuneration, THE PRESIDENT said that the money question was incidental; he was sure that what worried the proposer was the possibility of a breakdown in the service.

MR. K. HOLLAND, Romford, said that those who stayed in hospital pharmacy were idealists. Their wives and families were living at lower standards than their retail, wholesale and manufacturing colleagues. The Ministry should be made to sit up, take notice and give the pharmacist adequate reward.

MR. S. BUBB, Reading, suggested that pharmacists should refuse positions in haspitals

MRS. N. E. D. GOMER, West Kent, said that the "powers that be" must be convinced of the pharmacist's worth. In many departments long hours had to be worked with inadequate equipment.

MR. C. H. ROBINSON, Mansfield, said that it was becoming increasingly difficult for a married man to stay in hospital pharmacy. He pressed for full publication of the Linstead report and criticised "certain people who negotiated salaries on Committee C of the Pharmaceutical Whitley Council." They squabbled among themselves, he declared, instead of getting on with the job. He suggested that the Pharmaceutical Society should secure representation on that committee, if necessary by the surrender by the Guild of Public Pharmacists of one of its seats.

The motion was carried unanimously.

A motion from North Staffordshire Branch that the annual meeting of the Society should be held in the provinces at least every other year was lost.

#### Apprenticeship

A Leeds motion that the alternative apprenticeship of one year after qualifying should be abolished was proposed by Mr. T. W. FISHER, who said that the pre-graduate apprentice was penalised financially. Mr. M. Jackson seconded the motion and Messrs. M Peel, Huddersfield, F. Holroyd, Bradford, and C. E. Turner, North Staffordshire, supported it. Mr. G. T. M. David, Swansea, advocated abandoning preconceived ideas on apprenticeship and the incorporation of it in the academic course. Mr. D. H. R. Moody, Colchester, said that the student who had served an apprenticeship before college and who found that pharmacy was not his bent, had lost many years. The apprentice should be considered. Mr. D. F. Baldwin, Bristol, said that square pegs, as students with no pre-graduate training might turn out to be, were not wanted in pharmacy. Mr. E. R. Matthews, Portsmouth, asked whether, if the motion was accepted, University graduates would not continue to take train-

ing after qualification? Despite THE PRESIDENT'S request that the subject should be left in the hands of the Education Committee, the motion was carried

Another Leeds resolution on apprenticeship, making a two-year apprenticeship obligatory and served in one period before, or two periods before and after, qualification, was proposed by Mr. M. Jackson, who suggested that new theories were being taught at the expense of their practical application. Mr. D. Royce, Leeds, seconding, said that the pharmacist had to know something of business methods and they could not be assimilated in one year. Mr. K. HOLLAND, Romford, was in favour of a longer period than was in favour of a longer period than the year but against its being taken before qualification. The man straight from school was not ready to learn the subtle things that could not be got from an academic course. MR. G. J. HENDRA, Cornwall, gave a warning that people who had served an apprenticeship but had not qualified would perhaps become registered unqualifieds. Mr. H. Geldard, Rochdale, said that many people would be in the wrong job if they took their training after the

academic course.

MR. H. WILLIAMS, Reading, proposing his Branch's amendment that would make a two-year apprenticeship before the qualifying course compulsory, said that students could not be trained after qualification because they knew more than the person training them.

Mr. T. A. Durking, Blackpool, was opposed both to splitting the apprenticeship and to a one-year apprentice-

ship.

MR. R. W. WAKEFORD, Cornwall, putting the student's point of view for apprenticeship before the qualifying course, quoted a letter from his son: "Any old fool could swot up theory and shove it down on paper."

and shove it down on paper."
MR. W. R. Jones, Thanet, made a vigorous plea for an apprenticeship of

at least three years.

On amendment and substantive motion being carried, Birkenhead and Bradford Branches withdrew similar motions.

After THE REGISTRAR had intervened in a discussion of a Leeds Branch motion demanding the general school certificate at higher level for entrants to pharmacy, Mr. D. ROYCE (the proposer) said that the motion was not framed to cut out the Intermediate examination, though he admitted that it might seem so. The motion was lost.

#### Fellowship as an Honour

MR. E. R. MATTHEWS, Portsmouth, announced that the Walsall Branch had agreed to a Portsmouth amendment to its motion. The amendment called for the award of the Society's Fellowship as an honour and the institution of a system of endorsement subjects qualifying, with a covering dissertation, for the award of the Fellowship. MR. DILKES, Walsall, seconding, said that the Fellowship should be the primary qualification in pharmacy and should be an honour for services rendered to pharmacy over a long period and for original work in the pharmaceutical sphere.

THE PRESIDENT asked if it was desired that the Fellowship should be awarded to "the grand old man in pharmacy." MR. DILKES replied that provided the man had rendered service worthy of it nationally, then he would envisage such a person being granted the Fellowship. The motion was carried.

Slough and Monmouthshire Branches joined in a resolution demanding that members of the Society's Council should have area responsibility. THE PRESIDENT said that the idea was constitutionally unsound. It was the Council's job to look after pharmacy as a whole. An amendment calling for area representation was lost and the original motion was also lost.

#### Shop Hours

A Glasgow Branch motion sought to make the keeping open of a shop in excess of normal hours a matter of unexcess of normal nours a matter of uncthical conduct. Many amendments were tabled. All dealt with various definitions of shop hours. A lengthy discussion was interrupted by THE PRESIDENT'S asking if the branches concerned would agree to leave out that part of the motion that dealt with the definition of shop hours. motion so amended was put to the vote and was passed with acclamation. In the discussion, MR. G. R. S. MEE, North Staffordshire, said that the only body able to control opening after hours was the Pharmaceutical Society. MR. H. J. SEATH, Eastbourne, said that the problem was more a matter for the Ethical Committee than was an announcement in a parish magazine advertising a dispensing chemist. Mr. E W. G. Dilkes, Walsall, advocated that the matter should first be considered by the local branch. If it were serious it should be passed to the Council for consideration. Mr. G. B. SOCKETT, North Staffordshire, said that there were those whose hearts bled for the public, but the drops of blood flowed into the till. Mr. G. T. M. DAVID, Swansea, thought that rota hours must be adequate. Mr. W. F. WILKINSON, West Metropolitan, said that pharmacists should give the public the service it required and not the service they thought it ought to require. The hours should be decided by pharmacists, not by a lay body. Executive Councils did not always have the answer. MR. E. A. BRIGGS, Liverpool, advocated a new 6-9 p.m. basis for the rota service. Mr. G. J. HENDRA opposed the resolution. The man who wanted to work a little longer should not be made a martyr. It was up to members locally to see that the Shops Act was enforced. MR. K. HOLLAND, Romford, said that contractors should not be allowed to come out of a rota. MR. R. L. STEPHENS, Brighton, said he was in support of the motion but did not want the running of an all-night pharmacy interfered with. He wanted to be able to sleep all night. Mr. E. C THONGER said that such shops should not be excluded. MR. M. JACKSON, Leeds, suggested that Executive Councils should try to solve the problem before the Society tried. MR. S. DURHAM, Sheffield, said that pharmacists were behaving as a profession

when they shared as a joint responsibility the provision of the pharmaceutical needs of an area. MR. E. TOMBLIN, Leicester, did not want to see the matter included in the code of ethics.

A Portsmouth Branch motion that university graduates should be required to pass the Society's examination in dispensing as well as in forensic pharmacy before being admitted to the register was carried in spite of a statement by THE REGISTRAR that the Society had complete control over the recognition of degrees.

#### Council Proceedings

A motion from Portsmouth Branch wanted a fuller account of the proceedings of the Council and its committees, together with the way its members voted, published in the Society's journal. An amendment from Southend Branch demanded the circulation of the minutes of the Council and its committees to branch secretaries. A motion similar to the Portsmouth one was withdrawn by Tees-side Branch. MR. G. N. BERRY, Southend, thought that if the minutes were made available, the contents would not get into the wrong hands.

THE PRESIDENT said that a dissenting member of Council could have his name recorded. It would be unwise to publish anything on negotiations.

The amendment and original motion

were lost.

A Brighton motion advocating the retention of Latin in pharmacy was carried.

Motions by Somerset Branch on remuneration and apprenticeship were withdrawn because of the adequate discussion those subjects had already had.

A Portsmouth motion was carried that Press copy should only be circulated with the Branch officers' approval and that reporters representing the lay Press should not be invited to Branch meetings without the consent of the local officers.

MR. S. Bubb, proposing a Reading Branch motion calling for a revision of the arrangements for the conduct of prospective candidates for election to the Society's Council, said that new candidates did not have the opportunity of addressing branches up and down the country. Mr. E. E. LOCKER, Reading, asked what was the difference between sending a letter and publishing it in the pharmaceutical Press. The President said that addressing meetings might be a double-edged sword. Mr. M. Jackson said that, as a candidate, he was quite satisfied with the arrangements the Council had made. The motion was lost.

The last resolution to be adopted was one from Birkenhead demanding the labelling of all official preparations made and/or distributed by wholesalers and manufacturers with the year of issue of the official publication concerned.

#### LOCAL OFFICERS

#### Pharmaceutical Association

West Ham.—President, Mr. D. C. Evans; Vice-presidents, Miss Joan Cloud, Mr. J. Reed; Treasurer, Mr. H. A. Horlington; Secretary, Mr. W. H. Cloud, 45 Longbridge Road, Barking.

#### **BRANCH AND ASSOCIATION MEETINGS**

EPSOM AND SUTTON

Horticultural Lecture

Members of the Epsom and Sutton Branch of the Pharmaceutical Society, at their meeting on May 13, heard Miss A. M. Angwin (Plant Protection, Ltd.) Speak on "Pests and Diseases and their Control." Miss Angwin's talk took the form of a commentary on two silent films provided by Plant Protection, Ltd. One, "Some Pests and Diseases in the Garden," illustrated the commoner garden pests and diseases and showed methods of control as practised by the amateur. The second film, entitled "Soft Fruit," showed the propagation, planting, pruning, general cultivation, and the control of pests and diseases of soft fruit.

#### **EDINBURGH**

#### Non-payment for S.V.R.

THE notice in the recently published Drug Tariff (see C. & D., March 27, p. 308) which states that when 95 per cent. alcohol or rectified spirit is prescribed, payment will be made for industrial methylated spirit, unless the doctor cndorses the prescription "N.A.," was discussed at the recent annual meeting of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society. The procedure, said Mr. J. LIDDELL, was entirely contrary to the Society's Code of Ethics. Dr. G. Perrins, said that many doctors would not sanction the use of industrial methylated spirit for ear drops. MR. C. G. DRUMMOND pointed out that that might well be the thin end of the wedge and that before long unless chemists were careful similar instruc-tions would be issued for other drugs and dressings. It was agreed to raise the matter at a higher level. The discussion followed an address by Dr. D. McCall (the Society's resident secretary in Scotland) on "Scottish Pharmacy." A donation of £20 was made to the Society's Benevolent Fund from the social fund of the Branch.

#### LIVERPOOL

#### Member as Lord Mayor

PRESENTING the secretary's report at the annual meeting of the Liverpool Chemists' Association and Branch of the Pharmaceutical Society on May 6, MR. H. W. COTTLE said the Association and branch had been proud that one of their members, Alderman W. J. Tristram, had been lord Mayor of Liverpool. Alderman Tristram represented the city at the coronation of Her Majesty Queen Elizabeth II; he was also there in his capacity of president of the Society, for he did not relinquish that office until June 9. Mr. Cottle said the average amount per member contributed to the Society's Benevolent Fund during the year was 9s. 7d., an increase of 10d. over the previous year. Membership of the Association was now 219, an increase of nine over the previous year; the latest figures for the branch gave the membership as 717, an increase of twenty-two. Average attendance at the six evening meetings held during the year was fifty-eight. They congratu-

lated the trade journals on the excellent way in which they had reported their meetings and social functions that session. Mr. E. C. Bourns, treasurer, said proceeds from a dance (£57 15s. 6d.) with private donations (£42 15s.) had resulted in £100 10s. 6d. being sent to the Society's Benevolent Fund. Mr. L. A. BUTT, the retiring president and chairman, said he wished to place on record his appreciation to Alderman W. J. Tristram for the honour he had done to himself, and the Association and Branch during the year of his lord mayoralty. He thanked the officers and the regular attenders who had contributed to the success of the session, and Mr. W. J. Merrick (Evans Medical Supplies, Ltd.) who had assisted in putting the administrative system on an up-todate footing. MR. G. L. CLUBB proposed the election of Mr. Farrer Barnes as president of the Association. Mr. Farrer Barnes asked members to give greater support for the meetings and functions and invited members to submit suggestions for the programme.

#### COMPANY NEWS

Previous year's figures in parentheses

LEWIS & BURROWS, LTD.—A dividend of 10 per cent. for the year to September 30, 1953, is recommended on capital increased by 40 per cent. free scrip issue (same on old capital). Group net profit is £6,616 (£7,086) after tax of £10,960 (£10,880).

TAYLORS (CASH CHEMISTS)
TRUST, LTD.—Subject to audit the results of trading in the fifty-three weeks ended January 2 are:—Group profit after all charges except tax, £372,249 (£317,186); tax, £184,825 (£161,200). Returns for subsidiary companies for the same period are as follows:—Taylors (Cash Chemists) London, Ltd.—Profit before tax, £162.283 (£160,459); tax, £83,314 £81,385). Taylors Drug Co., Ltd.— Group profit before tax, £231,589 (£194,164); tax, £114,775 (£97,958). Taylors (Cash Chemists) Midland, Ltd. —Profit before tax, £12 (£122,613); tax, £64,203 (£61,128). £128,338

DUFAY, LTD.—Consolidated trading profits for year ended September 30, 1953, was £6,141 (£61,221). After deducting depreciation, £21,973 (£38,628); directors' and auditors' remuneration, £14,348 (£16,786) and tax recoverable, £250 (£1,367) there remains a net loss of £30,430. The chairman (Mr. E. Lightfoot) states that the year was a difficult one, owing to time and money involved in completing the development stages in the production of x-ray materials as well as to increased competition in cameras and other While the accessories from abroad. company's accounts for the first four months of the current year showed a loss the position has since improved and with increasing demand for x-ray films he expects the accounts for the year ending September to show a small

THE BRITISH DRUG HOUSES, LTD.—The directors state in the report

on the company's trading in 1953 that consolidated sales were slightly below the level of 1952, over 43 per cent. being in overseas markets. Sales of pharmaceutical chemicals and preparations by the parent company declined somewhat in the home market but export sales increased to 30 per cent. (from 26 per cent.) of that part of the company's turnover. The directors point out that while a large part of the home sales of those products are ultinately paid for through the National Health Service that is not the same as being dependent on Government contracts since economies associated with large-scale orders do not obtain. For that reason the company's earnings over many years have been "no more than reasonable and in the past two years well below the average of British industry." (For accounts see C. & D., May 8, p. 466.)

IMPERIAL CHEMICAL INDUSTRIES, LTD. — A profit-sharing scheme is proposed by the directors in their annual report for 1953. It will apply only to the group's employees in the United Kingdom and will cover initially about 75,000 of the total of 107,000 workers. The scheme is subject to the approval at the annual meeting on June 17. The first bonus will be payable in June or July 1955 to adult employees with  $2\frac{1}{2}$  years' service or over at that date, on the basis of 1 per cent. of the employee's annual remuneration for each 1 per cent. of the total annual ordinary dividend in excess of 5 per cent. In the first year the scheme is expected to cost the company £1 million. The report shows a new record was established in 1953 when consolidated sales totalled £281.9 millions (£276.3 millions). Home sales were higher but direct exports fell by £4 millions to £58 millions mainly due to scarcity of sterling in many important markets.

#### BUSINESS CHANGES

L. B. SINGLETON, LTD. (advertising agents, 16 Berkeley Street, London, W.1), is the new title of the company formerly known as Cecil Swann, Ltd.

THE exchange and telephone number of the order department of Sandoz Products, Ltd., 134 Wigmore Street, London, W.I, are being changed on June 1 to Hunter 0808.

#### **Appointments**

RIKER LABORATORIES, LTD., Morley Street, Loughborough, Leics, have appointed Mr. R. W. Richards, B.Pharm., F.P.S., as a sales executive.

EVANS MEDICAL SUPPLIES, LTD., Speke, Liverpool, have appointed Mr. K. L. Vaughan, D.V.Sc., M.R.C.V.S., manager of their veterinary information department.

MORNY, LTD., 22 Wadsworth Road, Greenford, Middlesex, advise that their representative in north-west England (Mr. G. Jackson) will also represent the company in Dumfriesshire, Ayrshire, Wigtownshire and Kirkcudbrightshire from June 1. Mr. Hugh Kinghorn will represent the remainder of Southern Scotland in addition to his northern territory.

#### THE WEEK IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

IN the debate on the adjournment on May 18, Mr. G. R. H. NUGENT (Joint Parliamentary Secretary to the Ministry of Agriculture and Fisheries) said that the Ministry's veterinary officers at Weybridge had tried phenothiazine against warble fly disease, but so far the experimental work had proved very discouraging.

#### Pharmacy Bill

In the House of Lords on May 19 the Pharmacy Bill that will consolidate enactments relating to pharmacy, with corrections and improvements made under the Consolidation of Enactments (Procedure) Act, 1949, was read a first time. It received a second reading on May 25.

#### Deaths from Chloramphenicol

Dr. B. Stross asked the Minister of Health how many children and how many adults had died following, and as a result of, treatment by chloramphenicol in 1952 and 1953.

MR. IAIN MACLEOD (Minister of Health) replied that the information was not available. In reply to a further question, he said that considerable dangers were involved in the use of the drug and there had been a number of deaths, most of them, he thought, being due to an overdose.

#### Prescribing of Cortisone and ACTH

MR. IAIN MACLEOD told MR. A. BLENKINSOP on May 20 that there are no regulations governing the prescription of cortisone, ACTH, or any other drugs for the use of private patients. In the public interest he had limited the distribution of cortisone and ACTH to selected hospitals from which they might be obtained for the treatment of private patients suffering from certain serious conditions.

MR. BLENKINSOP: Does not the Minister agree that it is undesirable that patients should feel that they can get those drugs as private patients but may not be able to get them, at any rate from general practitioners, under the Health Service? Will he urge on doctors generally that those drugs should not be prescribed except in hospitals?

MR. MACLEOD replied that it was hoped to extend the distribution of the drugs very considerably. However, the use of the drug must, clearly, be entirely at the discretion of the doctors. One obviously cannot deny cortisone to a patient if it is thought desirable that he should have it, merely because he happens to be in a private room and not in a ward.

MR. TOM WILLIAMS asked whether, before a general distribution of cortisone was made, the Medical Research Council would be consulted on how, by whom, and in what quantities it should

be prescribed.

MR. MACLEOD: Certainly.

DR. EDITH SUMMERSKILL asked if MR. Macleod would make it clear that if a doctor at a hospital thought that an N.H.S. patient would benefit from the drug he would be able to prescribe it.

MR. MACLEOD said he could not give that assurance but supplies would soon be adequate for all such purposes.

#### Hospital Pharmacists

Mr. A. Blenkinsop asked the Minister of Health on May 20 what reduction there had been in the number of hospital pharmacists during the past two years, and whether any hospital outpatient pharmacy departments had had to be closed for lack of staff.

MR. MACLEOD: I regret that figures for 1953 are not available but there

was a small increase in 1952 compared with 1951. So far as my information goes, one hospital out-patient pharmacy department has had to be closed for lack of staff.

MR. BLENKINSOP: Will the Minister keep an eye on the position, since I understand that there has been some difficulty in recruiting staff for hospitals and would he see whether anything more can be done to encourage further recruitment?

MR. MACLEOD: Yes, certainly. I

MR. MACLEOD: Yes, certainly. I was rather surprised to see from the figures that there has been a small increase every year since 1949. I know there are such difficulties and it is one problem I am watching.

#### ACTIONS OVER SHELLAC CERTIFICATES

JUDGMENT was reserved in the High Court, London, on May 24 in consolidated actions arising out of a number of contracts for the purchase of shellac. Plaintiffs were the buyers, F. E. Hookway & Co., Ltd., Eastcheap, E.C.3, who sued the sellers on one contract, Alfred Isaacs & Sons, Fenchurch Street, E.C., claiming to reject fifty bags of shellac on the ground that it did not accord with the contract, which called for "F.O.T.N. pure Shellac," equal to London standard sample. Plaintiffs also sued Messrs. H. C. Graves, Lime Street, E.C., and A. J. Hill, Creechurch Lane, (chairman and secretary respec-y of the London Shellac Trade Association) alleging that certificates of quality and awards issued by certifiers and the committee were void, and ought not to be enforced. Defendants denied that plaintiffs were entitled to reject the goods. It was contended that the certificates and awards were valid. For the plaintiffs it was stated that it was known that Messrs. Isaacs were the first sellers under their contract 6111, which covered the bags of shellac referred to. The transaction was one of a number of forward contracts, mostly for delivery in January and February 1954. Delivery was made by the brokers handing to the buyer documents which included a certificate of quality issued by a panel of certifiers appointed by the Association, Mr. P. Friedenheim (managing director of the plaintiff company) had a sample analysed, and appealed against the quality certificate to the Committee of the Association. He was not allowed to be assisted by counsel or solicitor, and was not allowed to put in the analysis. The committee was alleged not to be properly constituted, and to include people who might be interested in one or other of many contracts into which plaintiffs had en-tered, and in which appeals against the quality certificates had been made. Plaintiffs alleged that the goods were inferior to the contract description in respect of insolubles and the presence of impurities, and were unmerchantable for sale in the way intended. The sight test, hitherto relied on, failed to reveal inherent deficiencies in the shel-lac. Plaintiffs contended that future certificates should be based on analysis, and that the certificates and awards could not stand. In their defence, the

officials contended that, having accepted the certificate and appealed against it to the committee, plaintiffs could not now say it was invalid. Alternatively, the committee's award, made on appeal, took the place of the certificate, and should stand. The persons who adjudicated in the appeal on the certificate in contract 6111 were all entitled to sit. A further twenty-five appeals by plaintiffs were heard together, on another date, Mr. Friedenheim stating that he did not want them heard separately. Plaintiffs never dis-closed the names of their sellers, said the defendants, and therefore could not object if they were present at the committee meetings. On the allegation as to lack of quality, based on "flow," it was contended by defendants that the custom of the trade was not to treat "flow" as a matter affecting value or quality, and the contracts were made on the basis of that customs. Further points and forward for tom. Further points put forward for the defendants were that the proceedings before the committee were properly conducted and that nothing occurred that was contrary to natural justice. None of the interested parties was present at the actual adjudication, taken separately, upon each appeal from the certificates, and the committee in each case made a visual examination of the sample (the normal procedure) to determine whether or not the certificate was correct.

#### OVERSEAS VISIT

MESSRS, C. J. WILLIAMS and P. J. MEDCALF (members of the staff of St. Andrew Mills, Ltd.) recently toured pulp and paper mills abroad in



order to study new developments, especially in pulp production. Away for a month, they visited Norway, Sweden, Finland and Denmark.

#### BIRTH

JEFFREY. — At the Simpson Memorial Maternity Pavilion, Edinburgh, on May 4, to Eileen, wife of Robert R. Jeffrey, M.P.S., 39 Gardiner Road, Blackhall, Edinburgh, a son.

#### **MARRIAGE**

EARLE—PALMER.—At Park Street Unitarian Church, Hull, Yorks, on May 20, Kenneth F. Earle to Elsie Beatrice Palmer, M.P.S., 168 Victoria Avenue, Hull.

#### **DEATHS**

BABBÂGE. — On May 10, Mr. Arthur Llewellyn Burgess Babbage, M.P.S., 46 Fore Street, St. Austell, Cornwall, aged sixty-eight.

BLAKE. — Suddenly in Paris, on May 18, Sir John Lucian Blake, aged fifty-six. Sir John Blake was comptroller-general of patents, designs and trade marks from 1949.

CAMPLIN.—On May 20, Mr. Har-old Ralfs Camplin, M.P.S., 5 West Street, Horsham, Sussex, aged seventytwo. Mr. Camplin had been in business at that address for about forty years and had had other shops in the Carfax, Horsham, and Petersfield, Hants. The cremation took place privately at The Downs Crematorium, Brighton, on May 24. A memorial service to Mr. Camplin is being held at the Horsham Baptist Church at 3 p.m. on May 27. Mr. Camplin was a Fellow of the Royal Horticultural Society and a founder member of the Horsham and District Horticultural Society. He was a past-chairman of the Horsham a past-chairman of the Horsham Chamber of Trade. Mr. Camplin's great interest in life was gardening, and especially rose growing. He had taken many prizes for roses at shows. He had a great interest in all local charities and in particular the Dedisham Convalescent Nursery School, Slimfold, of which he was a great supporter. It was his wish that no flowers should be sent to his funeral but that, instead, memorial donations should be sent to the Dedisham School.

FRITSCH. — At 34 Causewayside, Cambridge, on May 23, Mr. Felix Eugen Fritsch, D.Sc., Ph.D., F.R.S., aged seventy-five. Dr. Fritsch was emeritus professor of botany in the University of London. He was president of the botanical section of the British Association in 1927.

GRIFFITH. — At Hereford general hospital recently, Mr. Gordon Mansfield Griffith, M.P.S., Codons, Wellington, Hereford, aged sixty-three, Until two years ago Mr. Griffith was proprietor of pharmacies in St. Peter Street and High Street, Hereford, having been in the city for over twenty-five years. For some time, Mr. Griffith served on the Hereford city council. He was a member of the Cantilupe Lodge of Freemasons. He is survived by his widow and three sons.

KELLY. — Suddenly, on May 20, Mr. Albert Edward Kelly, M.P.S., 17 Orchardhead Road, Liberton, Edinburgh. Mr. Kelly qualified in 1900. A native of Portsmouth, he qualified from the Royal Dispensary School of Pharmacy, Edinburgh. After experience with Duncan, Flockhart & Co., and Powell & Co., Leith, he set up in business at 76 Ratcliffe Terrace, Edinburgh, for between thirty and forty years, retiring in 1947. He took an active interest in pharmaceutical affairs and in 1923 contributed a paper on "Easton's Syrup" to an evening scientific meeting in Edinburgh. He served for a time on the committee of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society and was a delegate to the British Pharmaceutical Conference on numerous occasions. He was invigilator of the written examinations for several years. He was extremely conscientious, giving great attention to detail and since his retirement those qualities made him in great demand as a locum. He was a prominent freemason. He is survived by his widow.

TAYLOR.—On May 19, Miss Emma Bennett Taylor, High Street, Swanage, Dorset. Miss Taylor passed the Chemist and Druggist Qualifying examination in 1899.

#### **PERSONALITIES**

MR. FRANK HARLAND SWIRE, M.P.S., who has been a member of Halifax Town Council since 1947, was returned unopposed at the municipal election.

MR. W. A. OGDEN, M.P.S., Wymondham, Norfolk, who has been chairman of Wymondham urban district council since 1952 was elected vice-chairman for 1954-55 at the council's annual meeting held recently.

MR. C. AHR (one of the visiting French pharmaceutical speakers—see p. 550) obtained his diploma at the faculty of pharmacy, Nancy, in 1945, after having been imprisoned during

the 1939-45 war and arrested by th Gestapo. He is secretary of the Pharma ceutical Union of the Department of Marne, and he is a retail pharmacis in business in Rue Gambetta, Rheims Marne. Mr. Ahr holds the Croix d Guerre.

MR. P. C. ALLEN (main boar director of Imperial Chemical Industries, Ltd.) has written a book entitle: "Locomotives of Many Lands." Illustrated by his own photographs, the book describes characteristic locomotives of twenty-six countries, and addicated to the secretary of I.C.I., "and through him, to the chairman and directors of the company."

PROFESSOR ANDRE MORETTE (see p. 550) was born at Orleans in 1905. He earned his University Degrees at the Sorbonne, and at the faculty of pharmacy, Paris, and became Doctor of Physical Sciences in 1937. He was instructor for general analytical chemistry in the faculty of pharmacy of Paris 1945-47; assistant professor 1947-53; and is now associate professor. He lectures and organises courses in mathematics and analytical and inorganic chemistry. His scientific work has been in inorganic chemistry, and especially in the chemistry of vanadium, the title of his thesis being "Researches on Vanadium and its Compounds." He has also carried out investigations on some molybdenum and tungsten compounds, and has published several papers on pharmaceutical and general inorganic analytical chemistry. Professor Morette is the author of several books, or parts of books, on physical chemistry, statistical calculation of errors, analytical and pharmaceutical chemistry. He is a member of the Academy of Pharmacy. Besides his university functions he is a divisional inspector of the Ministry of Public Health and a member of the committee of manufacturers of the Ordre National des Pharmaciens.

## DISPLAY CENTRE FOR GLASS INDUSTRY

Manufacturers' new exhibition premises

NEW premises were officially opened for the Glass Manufacturers' Federation at 19 Portland Place, London. W.l, on May 24 by the President of the Board of Trade (Mr. Peter Thornycroft). The late eighteenth-century house at that address has been developed to provide accommodation for meetings, secretarial work, and exhibitions. As redecorated it combines most of the original architectural features with contemporary furnishing and decorations, including many innovations in which extensive use is made of glass. A permanent exhibition in the basement illustrates "the story of glass. In the showroom are on show several varieties of chemists' shop rounds as well as laboratory glassware (including sintered glass funnels, burettes and graduated measuring cylinders, evaporating dishes and crucibles in silica glass. Raw materials used in the industry are illustrated by means of photographs showing the quarrying of sand and the manufacture of soda-ash. Photographs are also used to illustrate mouth, semi-automatic and automatic blowing, and hand and automatic

pressing. Examples as well as photographs are used to illustrate such processes as drawing glass tubing, casting and moulding in the production of optical glasses, and lamp-working (used principally for laboratory and scientific apparatus). A section devoted to "glass with other materials" includes a vacuum flask shown in cross-section to reveal its various components and the method of assembly; several kinds of thermometer; a soda-water syphon; and a selection of cosmetic containers. Glass containers in great variety include ointment jars and blue, green and amber glass bottles..

On the first floor a "glass for export" exhibition is the first of a series of occasional exhibitions to be staged in a room set aside for that purpose. Among items shown are pharmaceutical and toilet products. There are labels in Arabic, Japanese, Italian, French and German. There also a range of laboratory and scientific glassware is shown, including optical glass in microscopes, meteorological instruments, and cameras, as well as some isotope glass used in atomic work.

#### NEW PRODUCTS AND PACKS

A Sun Cream from Switzerland .-Lloyd-Hamol, Ltd., 11 Waterloo Place, London, S.W.1, are now marketing in this country Ultra-tan sun cream, which is issued in a counter "sell-out" pack of twelve tubes.

Double-purpose Colour Rinse. — Evan Williams Co., Ltd., Aintree Road, Perivale, Middlesex, have introduced a double-purpose colour rinse, which both colours and perfumes the hair. The rinse is issued in an attractively printed envelope. A point-of-sale display stand is available.

Vitamin Preparation for Infants.-May, Roberts & Co., Ltd., 47 Stamford Hill, London, N.16, are the sole distributors of Molamalt, a new preparation with added vitamins made by Bickie-pegs, Ltd., 46 Tewin Road, Welwyn Garden City, Herts, for infants, children and invalids.

Lip-liner Pencil.—Alfred Franks & Bartlett Co., Ltd., 226 Grays Inn Road, London, W.C.1, are now marketing Bartlett's "lip-liner" pencil, a pure cosmetic that enables a firm outline to be given to the lips before filling in with the usual lipstick. The product is available in light, medium and dark shades

A Step Forward in Caponisation.— Burroughs Wellcome & Co., 183 Euston Road, London, N.W.1, have

Northern Counties Distributors.— Goodalls (Leeds), Ltd., Phoenix Works, Sheepscar Street South, Leeds, 7, "cover the North" with speedy van deliveries.

Awarded Hygiene Certificate. — Domestos, Ltd., Albion Row, Newcastle-on-Tyne, 6, announce that their product Stergene has been awarded the certificate of the Royal Institute of Public Health and Hygiene.

Modified Formula.—Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, announce that the formula of their Pausandryl tablets is being changed to contain ethinyl estradiol 0.005 mgm. and methyl androstanolone 5 mgm.

Tenth Price Reduction. - Parke. Davis & Co., Ltd., Hounslow, Middlesex, announce a reduction of 10 per cent. in the price of all Chloromycetin products from June 1—the tenth consecutive price reduction in the product since it was introduced.

Modernised Ethicals Department .-J. H. Haywood, Ltd., 11 Warser Gate, Nottingham, state that their newly equipped and modernised ethical proprietaries department is now attached to the main building. Their telephone number for drugs and ethicals is Nottingham 47659.

Special Seasonal Terms.—Southon Laboratories, Ltd., 88 Upper Richmond Road, London, S.W.15, announce special seasonal terms of 33\frac{1}{3} per cent., plus bonus of thirteen to the doz., on minimum three-doz. orders for either size Esoban cream of calamine. Four-

introduced, for the caponisation of cockerels, a new pellet Combestrol, combining hexæstrol and stilbæstrol. The preparation makes available the advantages of both compounds in a form that is administered by the implant route. The product is packed in a tube of twenty-five and bottles of i00 and 1,000 pellets.

Wood-preserving Solution.—British Industrial Products, Selwyn House, 3 Lansdowne Terrace, London, W.C.1, are the makers of Pentacide wood-preserving solution, which gives long-term protection against dry rot and wooddestroying insects, yet leaves the wood with a clean, dry, paintable surface. Pentacide is applied to whole timbers by immersion or to woodwork already in service by brush or spray. It is packed in 1-pint bottle, 1-gall. tin, and 5-gall. drum.

"Sell-at-sight" Toilet Roll.—The Eezeerip opening device of the Sek toilet roll introduced by Secrol, Ltd., 74 Cheapside, London, E.C.2, combined with its "half-way" price, have brought immediate sales for the product wherever it has been shown. quick downward pull of tab A in the illustration frees the roll for the fixture without damage to the roll itself. Displayed with the crowner illustrated, the toilet roll catches the eye of the customer, who is quick to see the

advantages of the wrapper-opening device which distinguishes it from all other toilet rolls. Each roll contains approximately 340 sheets of sulphite paper, and two crowners are enclosed in each half-gross carton. Sek toilet rolls are available through trade wholesalers (not direct).



#### TRADE NOTES

teen-day counter and window display qualifies for an additional 5 per cent. on £5 or 10 per cent. on £10 direct

Ampoules. — The New-strength British Drug Houses, Ltd., Graham Street, City Road, London, N.1, are now issuing their Anacobin vitamin-B<sub>12</sub> solution in ampoules containing 1,000 microgm. in 1 mil. The packings are boxes of three and twenty-five 1-mil ampoules.

Delivery Services.—BIOREX LABORA-TORIES, LTD., 47 Exmouth Street, London, E.C.1, offer daily deliveries of don, E.C.I, other daily deliveries of drugs, galenicals, etc., in the greater London area.—Regular deliveries in south Yorkshire, Nottinghamshire and Derbyshire are offered by SMITH & HILL (CHEMISTS), LTD., Sidney Street, Sheffield. 1.

Seasonal Discount.—For the months June, July and August Cuxson, Gerrard & Co., Ltd., Fountain Lane, Oldbury, Birmingham, are offering an extra 5 per cent, discount on all pur-chases of Adaptoplast first-aid dressings to all chemists who undertake to give a minimum of fourteen days' display. The product is on the C.F. list.

New Insulin Strengths.—Insulin zinc suspensions AB (amorphous and crystalline) are now being issued by the joint licensees and manufacturers (Allen & Hanburys, Ltd., London, E.2, and The British Drug Houses, Ltd., London, N.1) in strengths of 80 units per c.c. in addition to the 40units-per-c.c. strength previously avail-

Holiday Closings.—The following have notified Whitsun holiday closing times different from the normal bankholiday closing:

HARKER STAGG, LTD., Emmott Street, London, E.1: Closed on Friday, June 4 as well as on Whit Monday.

RICHARD DANIELL & SON, LTD.:
Ashton-under-Lyne offices and works open as usual at Whitsun but closed from Thursday evening, June 10, till Tuesday morning, June 15.

Ferrous Gluconate. — Kemball, Bishop & Co., Ltd., Crown Chemical Works, London, E.3, are now produc-ing ferrous gluconate, an iron salt that is easily assimilated and free from the unpleasant side-effects experienced with some other iron preparations. Ferrous gluconate is especially useful in the anæmia of pregnancy. The material anæmia of pregnancy. The material as supplied by Messrs. Kemball, Bishop is of high quality and complies with the U.S. National Formulary, IX. Supplies are available for immediate delivery.

Display Material.—Keen, Robinson & Co., Ltd., Carrow Works, Norwich, have produced two showpieces for Robinson's barley water, a two-bottle "crowner" featuring Old Hethers, and showcard with representation of bottle superimposed on photograph of young children cycling, and a "basket" to hold two bottles of Robinson's squash. The basket draws attention to the three flavours and carries a slogan also featured in the company's Press advertisements. For use with any of Robinson's soft drinks there is a "crowner" doll with orange and lemon skirts.

# FRENCH PHARMACISTS' LECTURE TOUR

Visits to Scottish branches and schools of pharmacy

A LECTURE tour organised by the Franco-British Pharmaceutical Commission was completed in Scotland on May 12 by Professor André Morette and Mr. C. Ahr. The visitors arrived in London on May 5, were entertained to dinner in the House of Commons by members of the Commission, and flew to Aberdeen on May 6.

Professor Morette addressed students of the school of pharmacy, Robert Gordon's Technical College, on the afternoon of May 6 on "Pharmaceutical Education in France."

He said that from the age of six to eleven or twelve years children went to primary school, from eleven to seventeen they entered the secondary institutions, called lycées or collèges. After that there were examinations leading to the *Baccalauréat* and the natural continuation was for those who had gained that first university grade, to attend a "great school" such as école polytechnique, or to attend a faculté. Faculties with some other establishments made up a university, but the "great schools" did not. A complete university, as Paris University was, included five faculties: law, medicine, sciences, humanities and pharmacy. Only a few State University for faculties: ties were complete with five faculties; in some Universities, medicine and pharmacy were united in a single "mixed faculty." In several towns "schools" of sciences or medicine and

#### Degrees in Pharmacy

versity of another town.

After attending the faculties for three, four, five or more years, the students obtained their university degrees, in pharmacy the diploma of pharmacist. Students who carried out original research work and defended a thesis became doctors of science or of humanities or of pharmacy. For law, medicine and pharmacy the most difficult competitive examination was called an "aggregation of superior teaching" and led to the professorate.

pharmacy or law depended on the Uni-

The degree of pharmacist was a State one; it gave to its owner the same rights whatever the faculty which had conferred it; it bore the signature of the Minister of National Education. French pharmaceutical education, and medical education too, depended only on that Minister and not on the Minister of Public Health.

After he had earned his baccalaureate, the future pharmaceutical student entered the shop of a pharmacist who had been recognised by the faculty to receive pupils. The pharmacist for one year, must teach the student the beginnings of practical pharmacy. Dr. Rowson, who had delivered a lecture in the faculty at Paris in 1952, had said that in Britain the practical period of pharmaccutical training had been the subject of numerous debates. It had been the same in France for twenty or thirty years. At present the question was being officially discussed. The faculties of sciences and humani-ties had introduced an intermediate



Dr. D. McCall, resident secretary in Scotland of the Pharmaceutical Society (second left) with (in order to right) Professor A. Morette, Mr. C. Ahr and Professor R. D. Lockhart at the school of pharmacy, Robert Gordon's technical college, Aberdeen, on May 6.

term between baccalaureate and university education called the propadeutic year. The question was to accommodate that principle to the needs of pharmaceutical education. It seemed that a pharmaceutical propadeutic term must include mathematics so that physical laws and even principles of statistical calculation could be understood; physics as a necessity for chemistry; basic vegetable and animal biology; and the fundamental elements of pharmaceutical practice.

At present the preliminary year of practical pharmaceutical training and the examination which took place after its completion were dedicated to the last part of that programme; the first part was supposed to be brought to the scholar by baccalaureate examination, but it was not really so. There was talk of a first year entirely devoted to general culture, a half-year term of pharmaceutical practice in a pharmacy and again a half-year for general culture. The speaker preferred a single year of preliminary training, which would include general culture and practical pharmacy given not in a pharmacy but in a special organisation with the collaboration of teachers of lycées, professors of faculties and pharmacists; the university curriculum should be the same as now, and a practical period of two years should be requested after graduation.

The present faculty curriculum comprised four full college years; students who had attended preparatory schools for three years must, therefore, finish their curriculum by one more year in a faculty. Examinations took place at the end of each of the first three years and at the end of the first and second years; four failures at the same examination obliged the student to withdraw from pharmaceutical education.

Formerly, pharmacy was uniform; now it tended to divide into several parts, dispensing, pharmaceutical in-dustry, medical laboratory, hospital pharmacy, and government administra-

tion and army. The curriculum was not fully convenient for all those branches at once, and for a long time the need had been apparent for the creation of post-graduate teaching. That was why for almost twelve years, in the Paris faculty and in several others, certificates had been set up for the improvement of pharmacists. As for dispensing pharmacy, at present the faculty degree was all that was required for a pharmacist in a re-tail shop; but before long, it was probable that a practical period and a professional diploma would be necescourses had been organised in the Paris faculty for commercial book-keeping, and the faculty delivered complementary certificates for professional techniques. sional techniques.

To fit graduate students for any duties in modern pharmaceutical industry or medical analysis, certificates of special and superior studies had been created one after another during the past twelve years; the certificates of superior studies were required with the same credit as the certificates of the faculties of sciences for the adminsion to the doctorate of pharmacy conferred by the State; without those certificates the doctorate of pharmacy was only conferred by the University. In 1952 there were 6,379 students for the whole country with 56 per cent. of girls, and 30 per cent. of those girls and boys were in Paris; the number of pharmacist diplomas conferred in Paris was in that year 888. In 1925 there were 3,227 students and in 1930, 5,142 students with 28 per cent. and

35 per cent. girls.

It is highly probable that there would be no major change in the university system. The pharmacist must be a learned man to be able to fulfil his duty in the service of human suffering and disease.

In the evening of May 6, Mr. Ahr addressed the Aberdeen Branch of the Pharmaceutical Society on "The Practice of Pharmacy in France."

Every Frenchman, he said, possessing the diploma of "pharmacist" delivered by the faculties of pharmacy, or the mixed faculties of pharmacy and medicine, could practise the profession in all the territories of metropolitan France, as well as in all the overseas territories.

Pharmacists alone could prepare, sell by wholesale, or sell by retail, medicaments intended for use in

human medicine in France.

The conducting of a pharmacy was, in France, incompatible with the practice of the profession of medicine, midwifery or dentistry. Pharmacists might not sell from their pharmacy any products or articles other than those which were tabulated in a list prepared by the Minister of Public Health upon the recommendation of the National Council of the Ordre des Pharmaciens, but they were compelled to stock a certain number of simple drugs, chemical products and prepara-tions that were described in the French Codex.

#### Secret Remedies

The sale of secret remedies was forbidden; every medicament delivered to the public must bear a label indicating its formula, or if it consisted of a preparation made in the pharmacy, the reference number of the formula in the prescription book. The sale, or exposure for sale, of substances or objects capable of procuring or inducing abortion, was forbidden, except on medical prescription.

The number of pharmacies in France was limited by law and was proportional to the population. Each pharmacist who wished to establish, buy, or transfer his pharmacy, must apply to the Prefect of his Department. Before arriving at a decision, the Prefect submitted the demand for the advice of the Regional Council of the Ordre des Pharmaciens, and to the Departmental Director of Health, who himself represented the Minister of Health. If the request of the pharmacist was rejected, the interested party could appeal to the Minister of Public Health, whose decision, after a new inquiry, was final.

The pharmacist must be the owner of his pharmacy and if it was a partnership (companies were forbidden in retail pharmacy), each member must be a pharmacist. All agreements concerning the ownership of the shop must be in writing; they were void if they accorded ownership to a person

who was not a pharmacist.

Proprietor, or co-proprietor pharmacists might not exercise any other pharmaceutical activity; thus they could be proprietors or co-proprietors of only one pharmacy.

Upon the death of a pharmacist, his heirs could maintain the estate for one year before selling the pharmacy. During that period, a pharmacy man-

ager must be appointed.

All medicaments must be sold at prices fixed by the National Pharmaceutical Tariff. Twenty aspirin tablets cost 36 francs (ninepence), whether in Paris, Marseilles or Calais. The price of pharmaceutical proprietaries must be marked on the package by the

manufacturer; extemporaneous parations prepared by the retail pharmacist must be priced according to scales of prices laid down in the National Pharmaceutical Tariff.

Institutions for the care of the sick (hospitals, clinics, etc.) were authorised to be the owners of a pharmacy; but that must be managed by a pharmacist who had the entire responsibility for its organisation. Those pharmacists its organisation. could supply medicaments only to patients in hospital.

In communes where there was no pharmacy the doctors were authorised to supply medicaments to the patients under their carc, but if a pharmacy was opened in the neighbourhood that authorisation was withdrawn.

Not all medicaments or which were delivered to the patient were automatically paid for by the Health Service. No payments were made for foods, mineral waters, dentifrices, etc. Proprietaries were not paid for if the manufacturer advertised them directly to the public; or if the letail price was more than 20 per cent. higher than that calculated for such a product if it were dispensed by the retail pharmacist as a doctor's prescription. Proprietaries which were paid for by the Health Service contained in their packaging a "vignette" (a small detachable label) bearing the name of the preparation and of the manufacturer. It was stuck on to the prescription by the patient to prove that the product had been supplied by the pharmacist, for it was only on presentation of the doctor's prescription that the patient was re-imbursed (to the extent of 80 per cent.) by the Health Service.

The majority of the shares in companies, or limited companies engaged in the preparation and sale by whole-sale of pharmaceutical products must be in the hands of pharmacists. For companies, the chairman and the majority of the members of the board, must be pharmacists; while for limited companies the managers must be phar-

macists.

The method of manufacture of a pharmaceutical product could patented, but the product itself could not be patented.

#### **Proprietaries**

Proprietaries having a trade name could not be exploited by the manufacturer until he had received the approval of the Minister of Public Health. In order to obtain that the medicament must be new. It must possess a therapeutic action. And it must not constitute a danger to public health. When a manufacturer wished to develop a new proprietary he applied to the Minister of Health to register his application.

From the date of registration the manufacturer had six months in which to present his dossier of application for approval. If after six months (the period could be extended from six to twelve months at the request of the manufacturer), the manufacturer had not lodged his official application for approval, other manufacturers who also had sought approval for the same product might in turn apply.

The dossier (which was anonymous) was submitted to a committee of eminent personalities in the pharmaceutical and medical fields. The committee could advise recognition; it could advise against the award of recognition; or it could require further experimentation. When approval was given, the manufacturer could not develop his proprietary until he had obtained authorisation tor all the wording which would appear on, or in, the packages destined for the pub-For doctors, only technical publicity concerning medicaments was uncontrolled; it was forbidden for laboratories to give those practitioners bonuses, publicity gifts or material advantages. For the public, all advertising literature must be submitted for agreement to the Minister of Public Health, but the authorisation which was then granted did not carry any guarantee concerning the therapeutic properties of the product; thus all the wording appearing on, or in, the packages of pharmaceutical products, must have been submitted for approval by the Minister of Health. When the the Minister of Health. publicity visa was granted, the manufacturer could develop his proprietary and call it by the trade name. During a period of six years, from the date of approval, the manufacturer was guaranteed against all imitations and was at liberty to advertise his product to doctors. After six years, that protection ceased and all other manufacturers could be authorised to develop a similar product, but with the express condition that they could not employ a trade name, only the common name followed by the manufacturer's name.

#### "Sous Cachets"

Products "sous cachets" could only be sold under their common name or scientific description, and all publicity, both to doctors and to the general public, was forbidden. Especially it was forbidden to make any reference on the package of such a product to any therapeutic usage. Those products did not require approval by the Directorate of Health, for their manufacturer did not offer them as possessing any therapeutic activity; they could thus be developed at once and by any manufacturer.

In France there were about 16,000 proprietaries and an average pharmacy carried a stock of about 3,000 different proprietaries. Retail pharmacists dispensed about eight times more proprietaries than extemporaneously made

preparations.

Biochemical analyses were carried out in France by pharmacists or by doctors. At the present time, the num-ber of laboratories for biochemical analysis under the direction of pharmacists greatly exceeded the number of such laboratories under the direction of doctors.

There were about 2,000 pharmacistbiochemists registered with the Ministry of Health. Of those, about 600 were entirely occupied with biochemical analyses, and did not possess a retail pharmacy. About 1,400 had a biochemical laboratory associated with their retail pharmacy.

(To be concluded)

# A CIVIC OCCASION AT HOUNSLOW Mayor opens new administrative offices and research laboratories for Parke, Davis & Co., Ltd.

ON May 20 the mayor of Heston and Isleworth (alderman D. C. L. Usher, J.P.) ceremonially opened with a golden key a new administration and research building at the Hounslow headquarters of Parke, Davis & Co., Ltd. The ceremony was performed in the presence of many distinguished medical, pharmaccutical, governmental



and civic guests and executives of the company. Among them were Sir Weldon Dalrymple-Champneys (Ministry of Health), Sir William Arbuthnot Lane, Professors H. Berry, J. H. Burn, Robert Cruikshank, W. H. Linnell and H. N. Rydon, Dr. H. Davis (chief pharmacist, Ministry of Health), Dr. J. M. Rowson (curator of the Pharma-ceutical Society's museum), Messrs. J. F. Boucher and J. M. Kirkness (president and deputy secretary of the Association of British Pharmaceutical Industry), H. Noble and R. H. Kemp (secretary and assistant secretary of the National Pharmaceutical Union) and H. E. Chapman (secretary of the Proprietary Articles Trade Association).

At a luncheon that took place after a tour of inspection of the new building, ALDERMAN USHER said that Messrs. Parke, Davis had been established on the site since 1900 and today employed there 1,300 people, of whom 166, including Mr. L. O. Smith, had been with the company for over twenty-five years. The mayor made special reference to the company's assistant general manager (Mr. John A. Freeman, B.Sc., B.Pharm., Ph.C., F.R.I.C.), "one of the borough's old boys," born on the day the company was established at Hounslow.



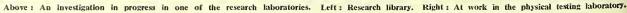
The building is of four stories and took three years to complete. lower floors house the various administrative departments of the company (accounting, sales, advertising, trade marks, etc.) which are arranged on a mainly open plan on either side of a central corridor. Each departmental manager has a glass-sided office in a corner of his department, and accounting machines and the typists' pool are wholly enclosed to isolate noise. There is direct tubular communication be-tween the order department and the invoice department in the basement, where is housed the electrical machinery for the latest punched-card system of invoicing. Every transaction involves bringing together in the machine several cards variously punched to enable the customer's name and address, products, amounts charged and the rest to be simultane-ously entered on the invoice.

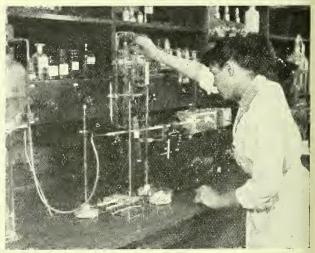
#### Research Unit

The new research unit comprises several organic preparative laboratories, a microanalytical department, facilities bench-scale preparative work, a constant-temperature room, and library.

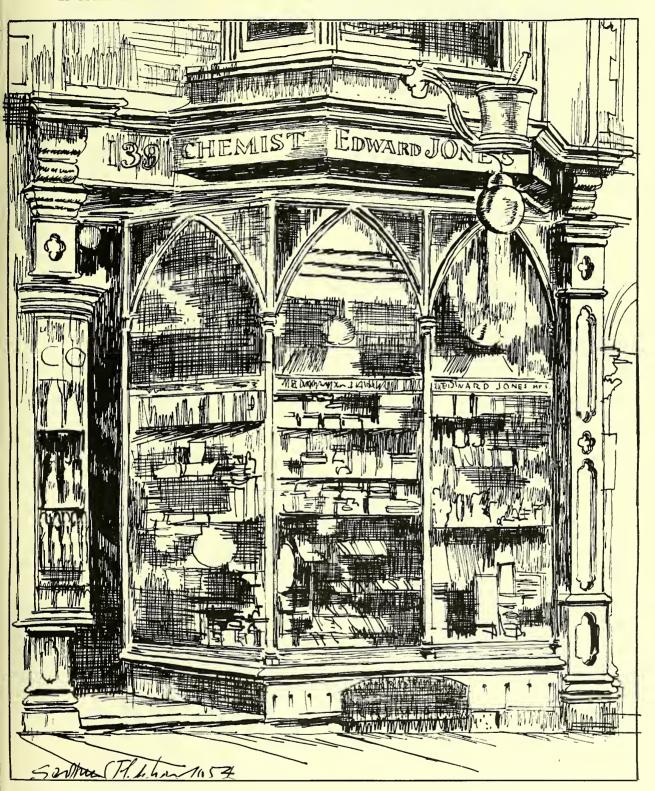
The company is now able to extend its research activities very considerably in this country.







## PHARMACIES OF BRITAIN—24



#### THE PHARMACY OF EDWARD JONES, HIGH STREET, GUILDFORD.

In the time of Dickens, Guildford had in his view one of the finest High Streets in the Kingdom. Cobbett, too, found Guildford one of the most agreeable towns encountered in his travels. The town has certainly today a fine array of well-preserved Georgian shops. The pharmacy of Edward Jones is, however, not Georgian but a pleasing essay in the Gothic style. It appears to date from the middle of the Victorian period.



Modern Plant Prompt delivery

Quality and accuracy guaranteed

B.P., B.P.C., & N.F. tablets stocked

#### G.O.WOODWARD & CO.LTD.

LARKHALL WORKS, NUNHEAD GREEN, LONDON, S.E.15 NEW CROSS 0478

#### MOLAM ANNOUNCING

new preparation with added vitamins, by Bickiepegs Ltd., containing essential body building properties. For infants, children and invalids.

Retail 2/1 per jar (18/9 per dozen).

Sole Distributors: MAY, ROBERTS AND COMPANY LIMITED. 47 Stamford Hill, London, N.16. (Stamford Hill 1260).

#### DICTIONARY OF SYNONYMS

For the pharmacist and his staff. Contains over 7,000 synonymous terms. 5/4 POST FREE

The Chemist and Druggist 28 ESSEX STREET, LONDON, W.C.2

# SULPHITE

49/6 5 oz. Per Gross

Per Gross 6 oz.

7 oz. 74/6 Per Gross Regular Supplies!

BOX C 6988 CHEMIST & DRUGGIST, 28 ESSEX ST., STRAND, LONDON, W.C.2.

## TRUSSES ELLIS, SON & PARAMORE LTD.

Spring Street Works, Sheffield 3
PRICE LISTS ON APPLICATION

#### INFORMATION WANTED

The Editor would appreciate information about suppliers of the following items:

ARDENSA anti-pruritic cream CARACORTINE pessaries BRAY injector METHOSTAN tablets

# NOW Dalar

The NEW specific for Dysmenorrhæa



International Laboratories Ltd., now introduce a product with a new approach, for which there is a "vast unsatisfied demand." We refer to the need for a tablet to combat the widespread incidence of dysmenorrhœa or excessive "period pains." What is required in the majority of cases is the prevention of uterine contraction. DALAY TABLETS contain a carefully chosen combination of analgesics and sedatives with antispasmodics, a combination which really works in a very high percentage of cases.

DALAY ADVERTISING has now started and will continue regularly in the large circulation women's journals so that DALAY is sure to be a top-line seller. One size only: 10 Tablets for 2s. 3d., incl. tax. Trade terms are 33\frac{1}{3}\%, plus 10\% extra for the display of the counter carton illustrated above.
INTERNATIONAL LABORATORIES, LTD.

#### For ASTHMA and BRONCHIAL COUGHS



#### International Laboratories Ltd

Dept. PA.42, 205 Hook Road, Surbiton, Surrey Elmbridge 0044 (4 lines)



For Retailer, Wholesaler and Manufacturer
ESTABLISHED 1859

Published weekly at 28 Essex Street, Strand, London, W.C.2

TELEPHONE CENTRAL 6565
TELEGRAMS: "CHEMICUS ESTRAND, LONDON"

#### Representatives Widen their Discussions

THE Pharmaceutical Society's Branch Representatives' meeting held in London on May 20 was a milestone in the series in that, for the first time, it was ruled in order to discuss such matters as remuneration and hours of service. As a result of the Jenkin case in 1920, the Society's functions were limited, so far as they affected hours of business, wages, etc. The new Charter has altered that and, as one speaker has said, the Society is now master in its own house. Understandably, there were those at the meeting who doubted if the Society was acting constitutionally. Right or wrong, however, the ruling led to some of the lengthiest and keenest discussion in the series of meetings.

Speakers on hospital pharmacy salaries laid stress on the number of the pharmacists leaving the hospital service, involving the possibility of a breakdown in that service. It is worth a passing comment that in Parliament on the same day (see p. 547) the Minister of Health said he was surprised to find that there had been a small increase in the numbers in the service every year up to 1952 (the latest year for which he had figures). It is to be hoped that the Minister will not extract too much solace from his figures. He would be better advised to pay attention to the overwork of those already in the service and the state of the vacancy lists. The Minister promised to watch the problem. It may be that he will discover that action rather than watching is indicated.

On apprenticeship there was general agreement among the Branch Representatives that the one-year post-graduate training is unsatisfactory both financially (in its unfair discrimination against the pre-graduate apprenticeship) and in providing only an inadequate training. Despite the president's earnest request that the question should be left to the Society's expert committee, a motion was passed to abolish the one-year apprenticeship after qualification. Another amended motion that was passed would make a two-year preacademic apprenticeship compulsory. While it is not easy to reconcile two different periods of apprenticeship, it seems a little unfair and unrealistic to compel all those students who would otherwise pass straight from school to university to interrupt their studies for two years. We should have thought the length of practical training was the essential factor, not so much its timing.

Widespread concern at the increasing frequency of rota-breaking was clearly demonstrated by one speaker after another on May 20. To define hours of service having proved too difficult, the meeting compromised

by agreeing on a resolution that branded as unethical conduct the keeping open of a pharmacy in excess of normal hours. That leaves the major problem unsettled. It was evident, for example, that opinion favoured exempting all-night pharmacies from the consequences of carrying the motion into effect. But is it more unethical to keep a pharmacy open from 6 to 9 p.m. than from 6 p.m. to 9 a.m.? The most realistic note, we cannot help thinking, was struck by those speakers who recognised that it is incumbent upon pharmacists to provide an adequate pharmaceutical service even if that means later closing than 7 p.m. Pharmacists must in the long run give the public the service it needs, not the service the pharmacists think it ought to have.

The queues waiting for prescriptions at all-night pharmacies demonstrate a need that can hardly be ignored.

#### Overseas Trade in April

UNITED Kingdom exports in April were valued at £224.9 millions. There is usually in the second quarter of the year an increase in the value of imports, due to heavy arrivals of commodities from sterling countries in the southern hemisphere. In April that expected increase was limited in amount. The import total of £284.3 millions was less than that of March and only £10.5 millions more than the average for the first three months of the year. Re-exports, which increased sharply in March, receded to £8.0 millions in April The excess of imports, valued c.i.f., over exports and re-exports, valued f.o.b., amounted in April to £51.3 millions. With a rise in April of two points in the index of import prices to 98 (average for 1953 = 100) and an unchanged index of export prices, the terms of trade thus showed an adverse movement of two points compared with March.

In drugs and medicinal preparations the export total in April was £2,628,559. Shipments to Australia were worth £217,306 and to Pakistan only slightly less at £214,887. Proprietary medicines, at £675,364, were at about the average monthly rate for the first quarter. Quinine exports showed some improvement at £34,100 above the previous month's figure but antipaludics fell to £49,041. Sulphonamides, at £148,271, barbiturates, at £49,493, and liver extracts, at £23,044, were higher than in the previous months of the year. The remainder of the medicines for which individual statistics are available showed a decline; among them were vitamins (£140,931); alkaloids other than quinine (£42,041), and antihistamines (£36,964). Also lower than in March were insulin, at £39,781, and ointments and liniments, at £95,125. Penicillin exports totalled £290,843, and antibiotics other than penicillin were valued at £266,229.

Among perfumery and toilet preparations shipped during April, lipsticks, face powder, rouge, etc., were valued at £207,492, dentifrices at £125,219, and toilet soaps at £215,676.

On the import side there was an outstanding rise in the value of alkaloids which, at £104,241, was almost equal to the first quarter's total. Vitamins, at £122,975, and antibiotics, at £392,385, were also above average, but not to the same extent. Proprietary and other medicines showed a decline although their totals for four months are well above the corresponding figures for 1953.

#### Newcomers to the Council Table

It was known beforehand that the Pharmaceutical Society's elections would bring at least two new members to the Council chamber. Interest centred on who those two would be, and whether they would be joined by others. So far as the results involve any surprises, they lie less in the persons returned than in the figures. Last year's runner-up, Mr. Cooper, has been returned with only forty-six more votes to his credit than last year. Mr. Bloomfield, who in 1953 was a score of votes behind him, is now at the head of the poll with an increase of 773 votes and a clear lead this year of 177 over Mr. J. F. McNeal. The other new member, Mr. H. S. Grainger, has achieved the rare distinction of securing election at what we had forgotten was his second attempt, for seven years has elapsed since his first.

A former president, Mr. F. C. Wilson, has paid the penalty for an indiscretion that it would be unkind to stress, but in point of fact he has secured so substantial a vote at the nadir of his fortunes that he

should be encouraged to stand again with every prospect of success-that is provided he has not, as runnerup, been co-opted in the meantime. His past and potential services to the profession are too great to be permanently lost now that he has suffered retribu-

We wish good fortune to the newcomers. Their presence will ensure a wider range of viewpoint in the inner counsels of the craft than previously, and one hopes their voices will be fully heard in the debates, even though their votes may tend to cancel out and leave the centre of balance very much where it was.

One other feature of the election figures this year deserves comment, and that is the closeness to each other of the runners-up. All except the first and the last were within the 2,000 to 3,000 range and even the lowest reached four figures. Last year there were nine candidates with less than 2,000 and one below the thousand. 9,738 voting papers were returned and 51,287 votes cast. Members therefore put an average of  $5\frac{1}{3}$  crosses on their papers.

## ORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

#### THE LATE MR. W. C. RADERMACHER

SIR,-I have known and done business with that gentleman of gentlemen, the late Mr. W. C. Radermacher, for thirty-seven years, and I do indeed endorse everything my old friend Mr. A. E. Southernwood says of him. LONDON, S.E.1 H. LATTIMER

#### RAISING CAPITAL

SIR,—In the C. & D., May 8 (p. 476) Mr. R. S. Whitelaw comments under the heading "Something Drastic Soon" on experienced pharmacists being content to hire out their diplomas to multiples and co-ops. I wonder how many are content. But has Mr. Whitelaw ever heard of capital? I have wanted my own business for twenty-five years but am still a manager. There must be hundreds in the same boat. Can Mr. Whitelaw make any suggestions on raising capital?

ONE OF THE OPPRESSED

#### PRESIDENCY OF THE SOCIETY

SIR,—I am expressing the wish of members throughout the country when I hope that the Council will offer the presidency to Mr. McNeal who, by service and seniority, has well earned that office. WATFORD

#### A. MATTHEW

#### THANKS TO VOTERS

SIR,—May I take this opportunity of thanking all those who voted for me in the recent Pharmaceutical Society Council election, and by so doing made possible such a wonderful achievement. I am deeply appreciative of the honour accorded to me, and most grateful for the support it has been my privilege to enjoy. To all who have sent greetings telegrams and letters I will send an individual acknowledgment. For the membership at large I promise to do my level best to justify the confidence placed in me. J. C. BLOOMFIELD PORTSMOUTH

SIR,—I thank you for the publicity which you gave to my candidature at the recent Council election and would be glad if you would grant me space to thank all those who recorded their votes for me. I shall do my best to deserve their confidence. BRISTOL, 1 WM. COOPER

SIR,—I wish to thank all members who voted for me in the recent Council election.

SOUTHAMPTON JOSEPH M. DOWTY

SIR,—May I once again thank all those who voted for me, and express that disappointment in being so near and yet so far from a seat on the Council. Especially I thank my Branch, and those who wrote to me before and since the election. Finally, congratulations to those returned, and the newly elected, and may their contribution be of value to us all.

**EXMOUTH** 

H. JARVIS GRAVES

SIR,—May I express my grateful thanks to those members who have appreciated my work on the Council during the past eighteen years by again giving me their vote in the 1954 election.

LITTLE CHALFONT

J. F. MCNEAL

#### THOMAS MILLER MEMORIAL FUND

SIR,—At a meeting representing every pharmaceutical organisation in the Manchester and Salford area, it was decided to raise a testimonial fund to the memory of the late Mr. Thomas Miller. It is unnecessary to attempt to explain to pharmacists of the area, and indeed to many pharmacists all over the country, how much Thomas Miller has done for organised pharmacy and for individual pharmacists during the past fifty years. As secretary of most of the associations in the area for many years he had, for longer than most of us can remember, born the brunt of organising most of the major and minor changes in pharmacy that have had to be implemented in the area. His work was done so thoroughly and quietly that none of us can estimate fully its extent. It had been hoped to present him with a testimonial during his lifetime, but circumstances have prevented that. The next best thing is to arrange for a substantial memorial to keep his memory as fresh as possible to future generations of pharmacists. May we appeal to the hundreds of pharmacists who have known Mr. Miller, and would wish to be associated with this effort, to forward cheques made payable to the "Thomas Miller Memorial Fund" to Professor H. Brindle, Department of Pharmacy, The University, Manchester, 13, or to the treasurer of the Fund, Mr. A. E. Thorpe, 777 Stockport Road, Manchester, 19. This letter is sent on behalf of all the pharmaceutical organisations in the area.

H. BRINDLE.

W. WILKINSON, President, Manchester

Pharmaceutical Association. E. BERRY, Chairman, Manchester, Salford and

District Branch of the Pharmaceutical Society. A. E. THORPE, Secretary

MANCHESTER

# A UNIQUE PARIS INSTITUTION

The Palais de la Découverte and its place in the training of pharmacy students

THE Palais de la Découverte, Paris, is an institution unique in the teaching of science generally and in the training of pharmacists in particular. It is, of course, a museum, but a museum staffed by scientists selected for their ability to teach, and arranged according to the most modern techniques of presentation. The aim is to disseminate as widely as possible the fundamental discoveries and principles of science.

The institution, situated in the Avenue Franklin D. Roosevelt, is organised under the University of Paris. It gives instruction at all levels—to the general public, to



Schoolchildren being shown experiments in elementary chemistry.

school children, and to university undergraduates. The instruction is principally in the form of practical demonstrations. Among those who go there for classes are the students of the Paris Faculty of Pharmacy. Medical and dental students also attend.

Administration is by a council, whose chairman is the Rector of the University of Paris, and whose members include M. René Fabre (Dean of the Faculty of Pharmacy). M. André Léveillé is director. The museum is divided into sections—mathematics, astronomy, physics, chemistry, biology and medicine. Chairman of the departmental committee of the section of chemistry is M. Gabriel Bertrand, a member of the Academies of Science, Medicine and Agriculture, and chairman of the scientific committee of the Palais. The section is designed to show "the work and fundamental experiments which make chemistry as important a branch of pure science as of applied science." Emphasis is laid on the applied science aspect, under which pharmacy is included. The exhibits relate to organic and inorganic, therapeutic, biological and agricultural chemistry, spectrochemistry, electro- and photochemistry, and geochemistry.

Written explanations alongside the exhibits are reduced to a minimum. The models are expected largely to tell their own story, but there are notices everywhere encouraging visitors to ask for further verbal explanations. There are also working laboratory benches at which experiments are performed. For example, Lavoisier's experiments on the analysis of air are demonstrated, and the properties of liquid air are dramatically shown. Experiments that would take some time to complete are set up by the demonstrator, and the subsequent steps explained and shown on cine films on a projection screen on the laboratory bench. The explanations given are, of course, varied according to the type of listener.

The section on therapeutic chemistry contains static exhibits on antiseptics, analgesia, hypnotics, anæsthetics and

the treatment of tropical diseases. A separate section is devoted to the antibiotics and their effects; it includes the stages in their production, from the laboratory to large-scale manufacture.

The various collections are rearranged from time to time to keep them up to date. In addition one or more temporary exhibitions are staged each year; one such exhibition (on the centenary of Pasteur) was transferred to the Science Museum in London. An exhibition on French medicine, shown at the *Palais de la Découverte* in 1940 before it went to Tokio, resulted in the creation of a French biological laboratory in Japan. In 1945 the exhibition was devoted to penicillin, and in 1946 the American Chemical Society staged there an exhibition on nuclear chemistry.

Every Saturday from November to June a scientific lecture is delivered, and among the subjects dealt with have been cancers and viruses.

For members of the general public there is an admission charge of 50 fr. (about one shilling). Students are admitted without charge. Apart from the small revenue received from the admission charge, the expenses of the institution are borne by the University and by direct State grant.

The Palais de la Découverte is open from 10 a.m. to noon and from 2 p.m. to 6 p.m. on every day except Friday. An interpreter is always available for English-speaking visitors.—Laurence Dopson.

## Onward from Galen

A CURRENT CAUSERIE

ONE must assume the just aspirations of the pharmaceutical electorate will be met by the Council of the Society as now constituted since the recent elections. A wag has suggested that, on this year's showing, the list of Council members' names will eventually stop short at those beginning after H, so that at least the aspirates will be assured. In General Elections a Party agent is sometimes heard to suggest that to have first name on the voting paper is worth a variously estimated number of votes to the candidate. The reason is thought to be a degree of illiteracy in the electorate causing the voter to put his cross against the first name. That any such factor should operate among members of the Pharmaceutical Society would be unthinkable. The 35 per cent. who voted must surely contain not the grouts but the cream of pharmacy's intelligentsia. To doubt it would be disloyalty.

 $\star$ 

THE meeting of Branch Representatives of the Pharmaceutical Society on May 20 (see p. 544) was marked by a singular joviality throughout, reflecting either the personality of the chairman or the uncontroversial nature of the agenda, or both. The general tone of the meeting was of agreement on broad principles, although there was much forthright discussion indicating a divergence of opinion on detail. Some of the humour is perhaps worth recording. Mr. C. H. Robinson, Mansfield, referring to committee C of the Pharmaceutical Whitley Council (which negotiates salaries for hospital pharmacists) quoted, amid much laughter, the remarks of a general on his troops. "I do not know what their effect upon the enemy will be, but by Heaven they frighten me." When doubt was cast upon the meaning of "simultaneous" Branch Representatives' and general meetings, the registrar's dry remark that he could not enter into a discussion on semantics received due acknowledgment. And did one detect a suspicion of equine laughter when the president said that it would be wrong for the Council to be represented by only one type of occupation?

#### HOSPITAL PHARMACY FORUM

# COSTS OF DRUGS AND DRESSINGS

HOSE who like to know where all the money goes should find something of interest in the recently published summary of accounts of the National Health Service for the year ended March 31, 1953, which deals with the expenditure of £240 millions. Of that amount, £33 millions went on hospital maintenance expenditure, and hospital pharmacists may be interested in some of the more detailed data. Unfortunately it is of endifficult to arrive at clear-cut conclusions by inference from the tables. For example, the percentage of total expenditure accounted for by drugs and dressings in general hospitals is, in hospitals controlled by Boards of Governors, 5.2, and in those under Hospital Management Committees, 6.1. The corresponding figures for provisions are 10 per cent. in the former and 11.8 per cent. in the latter hospitals. It would, however, be unwise to conclude that patients in hospitals under Management Committees are more lavishly fed and medicated than those in the teaching hospital groups. The ratios are altered by the relatively high cost of medical and nursing staffs in teaching hospitals, which together make up 33 per cent, of the expenditure. That in turn represents a difference in the type of work undertaken by the hospital, the length of stay of patients, and many other matters that do not appear in the tables. One sees, however, that in all general hospitals taken together, drugs and dressings make up 5-6 per cent. of the total. In maternity hospitals the figure is 4-4.6 per cent. Much of the sum represented will be in dressings and anæsthetics, and the relatively high figure probably represents the short period of hospitalisation accorded for obstetric cases. In convalescent homes and sanatoria, where patients stay for long periods, the cost of drugs and dressings is low, and a correspondingly high figure is given for provisions (10-12 per cent.). An interesting feature is that, in isolation hospitals connected with the teaching groups, drugs and dressings account for 5.0 per cent., but in those under management committees for only 2.2 per cent. As other expenditure appears to be roughly parallel, one may surmise that the type of case treated in the former is somewhat different from the others and requires heavier medication. Such conclusions are, however, only tentative, since so much remains unknown.

#### Comparative Costs of Provisions

It is worthy of note that, apart from wages and salaries, which take up over two-thirds of the total, drugs and dressings rank second to provisions throughout the hospital service. In many hospitals the expenditure on drugs and dressings is in the hands of the pharmacist, and it is not surprising that he has come in for a good deal of nagging by the authorities in efforts to economise. No doubt a minute study of one's expenditure could provide occasions for saving a trifle here and there, and a few hospitals could obviously save money by preparing injectable solutions in a laboratory serving 500-1,000 beds. On the whole, however, there is surprisingly little one can do to influence expenditure to an appreciable degree.

Independent work at Oxford recently showed that, in hospitals, antibiotics alone account for about 33 per cent. of the drug bill, and that a list of thirty or so individual commodities (not groups) account for 75 per cent. That is a finding even more dramatic than the Ministry of Health's statement that, in the whole country, ninety-one drugs account for 33 per cent. of expenditure. The drugs that go to make up the hospitals' list arc mainly finished pharmaccuticals, which give no scope for the exercise of pharmaceutical skill in the hospital and are, from the economic viewpoint, outside the pharmacist's control. The deciding factor in economy, therefore, is not the pharmacist but the prescriber. Such influence as the pharmacist

may have must be directed to cutting out waste on the wards by preventing the hoarding of short-life drugs by the nursing staff and by drawing the attention of senior medical staff to cases where antibiotics are administered over what appear to be unusually long periods.

It does not follow, however, that the remaining 25 per cent. of the drug bill may be left to look after itself. It covers the remaining thousand and one drugs that are handled every day and over which the pharmacist has some measure of control. It might indeed be argued that, the more efficient the pharmacy department, the greater will be the proportion of drugs (in terms of expenditure) over which the pharmacist has no financial control (e.g., the antibiotics, etc.). The 25 per cent. is made up of a multitude of drugs and groups of drugs, each accounting for only 0.1 to 1.0 per cent. Now the total drug and dressings bill in the hospitals of England and Wales is just over £9, or 3.7 per cent. of the total maintenance expenditure. One cannot, therefore, expect spectacular budgetary changes from any saving effected by the pharmacist. Indeed, the figures suggest that the service is being performed very efficiently. One is compelled to reiterate that the main contribution of the pharmacist is not reflected in the accounts at all. It lies in the dependable, accurate and informed supplying of medicines to the well-being of the patient, and, in collaboration with the medical staff, in selecting and preparing the most effective remedies. In that scientific and professional aspect of the work the pharmacist finds satisfaction and justification for his existence, and the more often that aspect can be emphasised the better.

Figures and analyses tend to be mistaken for reality instead of approximate symbols of one part of the whole. It is well to beware of being misled by the figures and to avoid being swept aside as a mere 3.7 per cent. valuation in the mind of a myopic calculator.

#### MEDICAL ABSTRACTS

#### PROCAINE AMIDE AGAINST PYLOROSPASM

HISTORIES of four cases of infants successfully treated for spasm of the pyloric portion of the stomach, involving vomiting of all feeds, with procaine amide are presented by Sadove and others (Journal of the American Medical Association, 1954. 2. 1328). The drug was given orally as solution containing 6 mgm. per c.c. in doses of 2.5 c.c. every two to six hours and after a week to ten days vomiting ceased. The authors suggest that the mode of action is due to anæsthetisation of the gastric mucosa thus reducing local irritability, a relaxation of the pyloric sphincter, and a quiescence of all gastro-intestinal motility. Further trials are suggested and it was pointed out that any child to receive procaine amide should be checked for sidereactions to the drug before administration.

#### TRYPSIN AGAINST INFLAMMATORY CONDITIONS

A TRIAL of purified crystalline trypsin administered intravenously is reported by Peck (Journal of the American Medical Association, 1954. 2. 1260). In patients with chronic thrombophlebitis the enzyme did not alter the basic defect causing the condition but it markedly alleviated the acute inflammatory reaction with a reduction in ædema, healing of skin excoriations and an improvement in colour. In one case the treatment removed the possibility of a leg amputation. There were, however, side-reactions. At the time of injection most patients experienced flushing of the face and a warm feeling: occasionally, a suffocating sensation in the throat, and in one case a salty taste in the mouth. About two hours following injections patients sometimes experienced chilly sensations, nausea, abdominal cramps, vomiting, and aching pain. There were also second-

ary reactions of constriction or obstruction of blood vessels. The author states that the adverse effects may be due to impurities or lack of understanding of dose requirements. Much more study would be required before the drug could be used freely.

## INFLAMED TENDONS TREATED WITH ADENOSINE

SATISFACTORY results were reported by Susinno and Verdon (Journal of the American Medical Association, 1954. 1.239) in forty-four out of fifty-three cases in which adenosine 5-monophosphate was used in the treatment of inflamed tendons associated with the formation of lime deposits. Only patients disabled by the complaint and with obvious

calcific deposits (demonstrated by x-ray photographs) were used in the study. To those patients 1 c.c. of a solution containing 1 mgm. of the drug was given intramuscularly every 1-2 days. At the same time a control group was given a similar volume of saline or gelatin solution. Therapeutic results were assessed on the criteria of loss of pain and significant improvement in orientation of the affected limb. Many of the patients had been undergoing other methods of treatment; nine of them were awaiting surgical treatment. The adenosine therapy was so effective that the operations were cancelled. The use of the drug was found to be safe and free from side reactions. An apparent "flare-up" of symptoms and disability occurred in almost half of the cases on the fifth to tenth day of treatment. It came to be regarded as a favourable prognostic sign.

## SCOTTISH EXECUTIVE ELECTION

#### Candidates' Biographical Details and Policy Statements

THE following information and statements of policy have been received from five of the candidates for the election to the Executive of the Scottish Department of the Pharmaceutical Society.

#### CARMICHAEL, WILLIAM CAMPBELL

GRADUATED M.A. at Glasgow, 1925. After a year in a chartered accountant's office, took up pharmacy. Studied at Royal Technical College, Glasgow, and qualified as a chemist and druggist in 1931. Engaged in retail business in Glasgow. Member of committee of Glasgow and Southwestern Scottish Branch of the Pharmaceutical Society since 1945, and present chairman. Member of local Pharmaceutical Committee, and of Pharmaceutical General Council (Scotland). Served in India and Burma during the 1939-45 war.

POLICY: My aims are the raising of the status of pharmacy in the estimation of the public and increased unity and co-operation among pharmacists.

#### DEANS, JOHN TURNBULL

AFTER apprenticeship in Glasgow, entered Royal Technical College, and qualified in 1924. Employed for several years in retail pharmacy in Colombo, Ceylon. On return to Britain, opened a pharmacy in Edinburgh. Member of Edinburgh Pharmaceutical Committee.

POLICY: I cannot say I have yet developed any, although I believe my activities in opposition to the pharmacy department in the Sighthill Health Centre are the reason for the attempts to draw me from political seclusion. I have no axe to grind in allowing my name to go forward, and leave the matter to electors. I do not seek election.

#### LAMB, J. CRAWFORD

QUALIFIED January 1928. Proprietor-pharmacist with two branches in Linlithgow. Sheriff-substitute for the Lothians and Peebles and justice of the peace. Town and county councillor and ex-provost of Linlithgow. Formerly a member of the local Pharmaceutical Services Committee and from 1951 to 1953 a co-opted member of the Scottish Executive. Again co-opted six months ago. Served for six years on West Lothian cducation committee and on the board of governors of Heriot-Watt College. Wide experience of negotiating with government departments.

POLICY: Keenly interested in the welfare of my colleagues in pharmacy and believe that my administrative experience in other spheres may be useful in the service of my fellow pharmacists in Scotland. I am particularly interested in the safeguarding and strengthening of our position under the National Health Service Acts and in a wise and realistic approach to the problems of ethics, training of apprentices, examinations and professional standards. Bearing in mind that a vast number of pharmacists are in retail business either as proprietors or assistants, I

submit that a very careful approach must be made to those matters which will affect the future of pharmacy for many years.

#### PARK, W. A.

SUPERINTENDENT and senior managing director, Davidson & Kay, Ltd., Aberdeen. Qualified 1922. Has been a member of the Executive of the Pharmaceutical Society's Scottish Department since 1950, and during that time has been a member of the Education Committee. Has been treasurer of the Aberdeen and North-eastern Scottish Branch of the Society for twenty-one years, vice-chairman for two years and has recently commenced his third year of office as chairman. Has been a member of the Aberdeen Pharmaceutical Association for many years.

POLICY: From my general business experience, I can claim a full knowledge of the day-to-day difficulties and problems confronting retail pharmacists. The experience gained during my "apprenticeship" with the Executive of the Scottish Department has given me that wider outlook, particularly in the field which I regard as the bedrock of all pharmaceutical thought and policy: education. I believe that the future of our profession lies in a progressive yet practical educational policy pivoted on the retail pharmacist so as to adequately equip him for his responsible and essential duties. My wholehearted efforts will be to give a diligent and faithful service to the profession and to work with equal assuidity for my fellow pharmacists in all spheres of pharmacy.

#### SIMPSON, JOHN

QUALIFIED in 1921, and was for three years manager of a private retail pharmacy in Hammersmith, London. Returning north, commenced business on own account at King Street, Aberdeen, and after being established there for eighteen years removed, in 1941, to present pharmacy at Banchory. Has been a member of the Executive of the Scottish Department for the past six years and has been a member of the Education Committee, and is a pastchairman of the Aberdeen and North-eastern Scottish Branch of the Society. Until recently was a member of the Pharmaceutical Standing Committee (Scotland). At present a member of the Pharmaceutical General Council (Scotland). Secretary of the local Pharmaceutical Committee and has been a member of the Aberdeen and Kincardinc Executive Council since its inception at the introduction of the National Health Service.

POLICY: Having had a long and varied experience in retail pharmacy and having been closely associated in the work of those various organisations, I am cognisant of the many difficulties which confront us. Should I have the honour to be re-elected a member of the Executive, I shall continue to serve, with diligence, all sections of the profession and at all times work for the future interests of the craft as a whole.

# PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

#### Monthly Meeting of Council

A MEETING of the Council of the Pharmaceutical Society of Northern Ireland was held in Belfast on May 21, the president (Mr. W. H. Boyd) in the chair. Also present were Messrs. W. P. Ewart (vice-president), J. Irwin (treasurer), S. E. Campbell, H. J. Cousley, H. P. Crossin, H. W. Gamble, F. R. Moore, H. F. Moore, J. McGregor, C. A. Quinn, P. R. W. Shinner, and Professor E. B. C. Mayrs.

Letters were received from the Northern Ireland branches of the British Medical Association and the British Dental Association thanking the Society for the use of their premises during the closure of the Whitla Medical Institute.

A letter was received from a county branch of the B.M.A. conveying a resolution stating that the members viewed with grave concern the practice followed by "a minority of chemists" in the area of advising customers on what they should be able to obtain from their doctors. The Council decided that suitable action should be taken to warn any chemists responsible.

Receipt was reported of copies of Statutory Rules and Orders (Northern Ireland) Nos. 61 and 62 signed by the Minister of Home Affairs and giving effect to recent Regulations passed by the Council, notably on entry for the Part I and Part II examinations. It was decided that tri-2(-chlorethyl)amine and its salts should be added to the Poisons List in line with the action taken in Great Britain.

#### Medicines Dangerous to Children

A discussion took place on a letter from the Federation of Women's Institutes, Northern Ireland, conveying a resolution calling for the introduction of legislation to ensure that all proprietary drugs and medicines dangerous to small children should be clearly labelled by the manufacturers. A copy of the resolution was also forwarded by the Ministry of Home Affairs with a request for the Council's observations. Mr. Shinner pointed out that there were already legal requirements regarding labelling of poisons. The President said there were undoubtedly cases of carelessness in allowing children to have access to medicines but that was the responsibility of the parents. Labelling would not save children who could not read. consequence he did not think that action was within the province of the Council. He suggested that the Federation could help by doing something to warn parents of the dangers of lcaving potent medicines where they could be found by children. Professor Mayrs commented that if some proprietary medicines only were labelled people would become careless about others. The only answer would be to have all medicines labelled except those that could be exempted. Mr. EWART said that barbiturates and other drugs were being prescribed in too large numbers. As a result people were not so careful as they would be with smaller quantities. Mr. Cousley said that chemists took every precaution but from the moment medicines were delivered the responsibility passed to the persons to whom they were given. In a further suggestion Mr. Shin-NER said chemists might display notices drawing the attention of the public to the fact that medicines should be kept out of the reach of children. It was decided to write to the Federation suggesting that they should take steps to give a similar warning.

On the recommendation of the Education Committee the certificate of apprenticeship was granted to Timothy Stephen Donnelly, Omagh. THE SECRETARY reported that there had so far been 111 entrants for the June Part I

examination and fifty-four for Part II. A deputation was appointed to inspect facilities at Enniskillen Technical School, the principal of which had written requesting recognition of classes for pharmaceutical students.

It was decided to obtain further legal opinion regarding difficulties which had arisen on the Council's submission that the new Bill to be brought before Parliament should repeal the provision protecting the ownership of pharmacies by doctors. While that amendment to the law had been made in Great Britain it had been pointed out that the Government of Ireland Act prevented the taking away of property without compensation.

An invitation from the Londonderry and Strabane Chemists' Association to hold the Council meeting on June 17 in Londonderry was accepted. An outing in co. Donegal is being arranged for the afternoon.

#### BRITISH FINE CHEMICALS AND THEIR USES

#### 9. SODIUM TUNGSTATE

C OMMERCIAL varieties of sodium tungstate at one time contained a large percentage of impurities. The crude material is generally liable to contain varying amounts of sodium carbonate, chloride and sulphate. The commercial varieties were obtained from the treatment of tungsten-tin ores, a by-product of complex composition, from which the salt was crystallised.

from which the salt was crystallised.

The simple formula Na<sub>2</sub>WO<sub>4</sub> does not as a rule represent its composition, as the best crystals are those of sodium pyrotungstate  $Na_{10}$   $W_{12}$   $O_{41}$ .  $28H_2O$ . The extraction process comprises fusing the tungsten-bearing material with sodium carbonate and a little potassium nitrate, digesting with water, neutralising the solution with hydrochloric acid, and evaporating to crude crystal form with subsequent purifying by re-crystallisation. There are various ramifications of that process whereby cyanides, bisulphates and other compounds are employed in the initial fusion. Sodium tungstate is used in the manufacture of matches, in candle wicks, in dyeing and calico printing where opal effects are produced, in place of sodium stannate as a mordant and for decorticating raw fibres. It is used in rust-proofing and corrosion-resisting treatments of steel sheets, and in the preparation of a number of pigments including magenta bronze. In the laboratory it is used as a means of estimating calcium. Sodium tungstate is employed for making cadmium boro-tung-state, an important reagent in mineralogical examinations for the mechanical separation of mixed minerals, and in the preparation of sodium phospho-tungstate and other tungsten-bearing compounds.

Possibly its largest consumption is in the making up of fireproofing compositions, of which a fairly large variety of preparations have been developed. These include additions of sodium phosphate, borax, alum, ammonium borate, sodium stannate and starch materials, in order to lessen the inflammability of a wide range of textiles and other materials. Sodium tungstate holds the advantage when used as a mordant for silk in that it also serves as a weighting material. The examination of the salt comprises gravimetric estimation of the tungstic oxide, and the normal methods of determining chlorides, sulphate and carbonates, but it has also to be closely examined for molybdic acid.

What are known as the tungsten-sodium bronzes used for decorative purposes are produced as red, blue, yellow and golden colours by varying the sodium, tungsten and oxygen contents. Sodium tungstate enjoys only limited use in the glass and porcelain manufactures, as better results accrue from tungstic oxide.

INCREASED PAPER IMPORTS.—The currency allowance for the import of wood pulp by British paper mills in the second half of the year has been increased by £4.25 millions to £35 millions, c.i.f.

#### TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

London, May 26: Mercury is now quoted nominally at £90 per flask of 76 lb. against £61 15s. four months ago. It is understood that Spain is not booking further orders from any source until books have been cleared of previous orders. Supplies of Italian mercury are also tight. Prices of MERCURIALS were adjusted on May 24. The new prices represent a rise of from 1s. 6d. to 1s. 9d. per lb. according to the salt.

On the same day the price of all grades of ZINC OXIDE was increased by £3 per ton. CITRIC ACID is in fairly short supply as a result of exceptional seasonal demand. It is understood that the makers will be able to supply normal requirements so long as there is no "panic" buying.

In the CRUDE DRUGS market the values of most commodities held firm. Higher prices were asked by holders of new-crop Buchu and Mace was slightly dearer for shipment. There was considerable inquiry for IPECACUANHA. Spot supplies continue to be very limited with an absence of offers from origin. The crop of Pyrethrum in Kenya for the year ended April 30 was 591 tons against 388 tons in the pre-Rain has helped crops vious vear. and an early increase in production is expected, but in one area farmers are restricting their acreage because of shortage of labour with consequent difficulty in keeping the plants clean. African GINGER remained firm throughout the week; little interest is shown by farmers in lifting the crop despite the much better prices now offered. A report from the Sudan states that arrivals of Gum Arabic up to the middle of May totalled 17,500 tons. Since 80 per cent, of the total crop has usually arrived by that time and only 4,000 tons is expected to come forward between now and the next crop a shortage in the intervening months seems inevitable.

In ESSENTIAL OILS, Ceylon CITRON-ELLA continued firm with the holders asking up to 6s, per lb. while at origin supplies are said to be very scarce. Chinese PEPPERMINT was reduced by threepence per lb. on the spot. Elsewhere prices were maintained at their previous levels. Imports of essential oils in April were valued at £380,505.

#### UNITED STATES DRUG AND CHEMICAL REPORT

New York, May 25: Higher by two cents per lb. are imported TARTARIC ACID at 34 cents and imported CREAM OF TARTAR at 26 cents. Spot quotations on CALOMEL were advanced 60 cents a lb. to \$4.97, reflecting the climb in MERCURY prices. Because of limited supplies, ARNICA FLOWERS are higher locally at \$2.00 per lb. (up 50 cents). SHELLAC for spot offering was scarce

and TN grades were increased in price.
Lower per lb. among Essential
Oils are natural Peppermint at \$5.80 (down 10 cents) with redistilled peppermint at \$6.20 (five cents); Californian Lemon at \$6.25 (50 cents); Dalmatian SAGE, \$6.00 (50 cents); and Lemon-GRASS, \$1.30 (five cents).

**Pharmaceutical Chemicals** 

AMPHETAMINE.—Prices (per kilo) for 25kilo lots are as follows:—Base, 160s.; SULPHATE, 130s.; d-Amphetamine, 550s.

ANEURINE HYDROCHLORIDE. -(per kilo) range from £46 for 1-kilo down to £45 15s, for 100-kilo lots,

ANTIMONY SALTS.—Quotations for POT-ASSIUM TARTRATE, B.P., are 7s. 6d. per lb. for 1-10 cwt. and Sodium Tartrate. B.P., 13s. 3d.

ATROPINE.—Rates for 16-oz, lots are: ALKALOID, 29s, 10d.; SULPHATE, 24s, 1d.; HYDROCHLORIDE, 31s, 9d.; METHYLBROMIDE, 24s, 7d.; METHYLNITRATE, 33s, 7d. The price for 1-oz, lots is 6d, per oz, more than the 16-oz reter. than the 16-oz. rates.

Barium sulphate. — 1-cwt, lots of B.P. (x-ray) are 1s, 5d, per 1b, and 5-cwt, 1s, 4d, per 1b,

BENZAMINE, — LACTATE is 53s. per 100 gm. and 247s. per 500 gm. Hydrochloride is 56s. 6d, for 100 gm. and 264s. 6d, for 500 gm,

BENZOCAINE. - Minimum price for B.P. is 20s. 6d. per lb.

BISMUTH SALTS.—The following are the prices (per lb.) in largest bulk packages:—

| 1                                          | 1-cwt.                                 | 28-lb.                         | 7-lb.                                 |
|--------------------------------------------|----------------------------------------|--------------------------------|---------------------------------------|
| CARBONATE SALICYLATE SUBGALLATE SUBNITRATE | s. d.<br>23 5<br>22 6<br>21 8<br>20 11 | s. d.<br>23 8<br>22 9<br>21 11 | s. d.<br>27 5<br>26 4<br>25 6<br>24 4 |

2-cwt. lots are 3d. per lb. less than the 1-cwt. rates. The present 1-cwt. rates for other salts are:—citrate, B.P.C., 22s. 8d.; NITRATE, crystal, 14s. 8d.; OXIDE, B.P.C., 27s. 7d.; OXYCHLORIDE, B.P., 27s. 9d.; OXYIODOGALLATE, B.P.C., 28s. 9d. and TRIBROMPHENATE, B.P.C., 26s. 9d.

BENZYL BENZOATE. — Makers' offers of B.P. grade range from 4s. per lb. for 1-ton lots to 6s. 9d. for smallest quantities.

BROMIDES.—Potassium B.P., crystals in 5-cwt. lots are 2s. 10½d. per lb.; 1-cwt., 2s. 11½d. per lb. Powder is 1½d. per lb. more. Ammonium is 3s. per lb. in 5-cwt. lots and Sodium, 2s. 9½d. per lb.

CALCIUM PANTOTHENATE.—Price per kilo is £32 10s.

CALCIUM GLUCONATE. — Quantities of 3-cwt. and upwards are quoted at 4s. per lb.; 1-cwt, to 2-cwt., 4s. 1d.; smaller quantities, up to 4s. 4d. per lb.

CALCIUM SUCCINATE, — Quotations are from 10s, 6d, to 12s, 6d, per lb., as to quantity. SUCCINIC ACID is from 10s, 6d. to 12s. 3d. per lb.

CREAM OF TARTAR.—Rates for the home trade are now as follows:—1-ton lots, 191s. per cwt.; 10-cwt., 192s.; 5-9-cwt., 193s.; 2-4-cwt., 194s.; 1-cwt., 195s.

CREOSOTE.—B.P. quality, ex beechwood, is quoted at from 6s. 9d. to 7s. 6d. per lb.

HYDROGEN PEROXIDE. — Manufacturers' price for single carboys of 20 volumes is 4s. 6d. per gall.

MAGNESIUM PEROXIDE.—Price (per lb.) for 1-cwt. lots of B.P.C. (15 per cent.) is

MAGNESIUM SULPHATE.—Quotations for B.P. in minimum 1-ton lots vary between £17 10s. and £20 per ton, according to size of crystal and manufacture. Exsicated is £34 per ton.

— In MAGNESIUM TRISILICATE. machesiom interest for the prices (per lb.) are now as follows:—28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

MERCURY DERIVATIVES .- Dearer. Quotations (per lb.) for 1-cwt. lots are now as follows: AMMONIATED, B.P., lump or powder, 27s. 9d.; PERCHLORIDE, B.P., powder, 24s. 9d. (lump 25s.); SUBCHLORIDE, B.P. (calomel), 28s. 3d.; OXIDES, B.P.C., levigated, or yellow, B.P., 30s.

Metol. — In 1-cwt, lots the price is 24s, 6d. per lb.; 28-lb., 25s, 6d.; 14-lb. 27s.; 7-lb., 28s.

Nikethamide. - Prices per kilo are:-1-kilo, 115s.; 50-kilos, 107s.

PAPAVERINE. —Synthetic HYDROCHLORIDE is offered at 330s. per kilo, and ALKALOID at 420s.

PAS.—The SODIUM salt is from 26s. to 30s. per kilo as to quantity.

PHENOBARBITONE. — 1-cwt. lots are 25s. 6d. per lb.; Sodium is 6d. per lb. more than above rates.

PILOCARPINE. — In 100-oz. (or 2½ kilo) lots prices are: HYDROCHLORIDE, 42s. 6d. per oz. (1,428s. 6d. per kilo); NITRATE, 38s, per oz. (1,340s. per kilo).

PIPERAZINE. — Quotations for HYDRATE are from 37s. 6d. per lb.

POTASSIUM NITRATE. - Pharmacopæial quality is 145s, per cwt. (crystal, granular or powder) and commercial, 90s.

QUINIDINE.—Prices (per oz.) for minimum 100-oz. lots in the home market are: ALKALOID, 8s. 9d.; SULPHATE, 6s. 7d. Extra charges for small lots.

RESORCINOL. - 1-cwt, lots are now quoted at 13s, per lb. by manufacturer.

Santonin. — The following prices apply in the home market, including Eire:—5-kilo lots, £63 per kilo; 2-4-kilo lots, £64 10s.; 1-kilo, £66; 500 gm., £67 10s.; 250 gm., £69; smaller quantities, £72.

SILVER SALTS. — NITRATE in 1,000-oz. lots is 4s. 0 dd. per oz.; Protein un-changed at from 36s. 3d. to 42s, 9d. and for VITELLIN from 68s, 6d. to 76s. 6d. per lb., as to quantity.

STEARATES.—Prices for minimum 1-ton Stearates.—Frices for minimum 1-ton lots are as follows:—Aluminium (all grades), £232 per ton; Calcium (precipitated), £210; LEAD (30 per cent.), £247; LITHIUM, ordinary quality, £439; MAGNESIUM, £231; ZINC, £233.

SODIUM SULPHATE.—Makers' prices for B.P. range from £10 10s, to £16 10s, per ton as to crystal and quantity.

SODIUM SULPHITE.—1-ton lots of AN-HYDROUS (48-50 per cent.) are £62 per ton in 1-cwt. drums; CRYSTALS, B.P.C. £38 17s. 6d. in kegs and £30 12s. 6d. in paper-lined bags.

SODIUM THIOSULPHATE. - Makers' price 1-ton lots in paper-lined bags is £34 per ton.

STEARIC ACID. — B.P.C. 1934 in 1-cwt. lots is 170s.; POWDER, 180s.

TERPIN HYDRATE.—Prices are from 5s. per lb. upwards as to quantity,

ZINC OXIDE.—Rates for all grades have advanced £3 per ton, B.P. quality is now: 2-ton lots, £117 per ton; 1-ton, £118; 5-cwt., £120; under 5-cwt., £127.

ZINC SULPHATE.—B.P. in 1-cwt. lots is quoted as 1s. 2d. per lb.; 28-lb., 1s. 5d.

#### Crude Drugs

ALOES.—A few shipment offers for small lots of Cape prime at 175s, per cwt., c.i.f., were received. Spot market cleared. Curaçao is 305s, on the spot and 290s., c.i.f., for shipment.

Antimony. — English 99.6 per cent., £222 10s.; 99 per cent., £210 per ton.

BALSAMS.—Quotations (per lb.) are:— Canada: 21s. 6d. spot. Copaiba, Para soluble quoted at 12s. 6d. per lb. Perely, 9s. in bond. Tolu (genuine as imported), is offered at 25s. to 26s., spot and 23s. 6d., c.if.

BISMUTH METAL.—Minimum rate is 16s. per lb.

Buchu,—New-crop leaves on the spot are offered at 2s. 9d. per lb. Old-crop available at 2s, 3d.

CALUMBA. —Ordinary natural sorts in course of landing quoted 90s, per cwt. No spot offers,

CAMPHOR.—Scarce, Powder and tablets cleared on spot. Shipment offers (c.i.f.) as follows: Tablets (Chinese), ½-oz., 5s, per lb.; ¼-oz., 5s. Id.; ½-oz., 5s. 2d.; Powder, B.P. (Formosan), 4s. 11d.

Capsicums.—East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 175s., spot.

CARDAMOMS. — Aleppy greens are 14s., per lb. on the spot; prompt shipment offers are 13s., c.i.f. and new-crop (September-October), 11s., c.i.f.

CASCARA SAGRADA. — Offers for prompt stypment are 275s, per cwt., c.i,f.; spot supplies are 320s., duty paid. Offers of new-crop indicate 235s. to 240s., c.i,f.

CHAMOMILE. — Belgian llowers are 5s, to 5s, 6d, per lb, on the spot.

CHERRY BARK. — Thin natural is from 1s. 8d. per lb., duty paid, and rossed, 2s. 1d., on the spot.

CHILLIES.—Mombasa are 300s. per cwt. on the spot, and 280s., c.i.f.

CINNAMON.—Cevlon for shipment (c.i.f.), per lb.; OOOO, 4s.; OOO, 3s. 11d.; OO, 3s. 10:l.; O, 3s. 9d.; firsts, 3s, 1d.; seconds,  $3\bar{z}$ .; thirds, 2s. 11d.; auillings, 2s.; featherings, 1s.  $1\frac{1}{2}d.$ ; chips, 6d. to  $6\frac{1}{2}d.$ 

COLOCYNTH.—A small quantity of pulp is offered at 1s. 10d. per lb., duty paid.

GENTIAN. — French natural on spot is firm at 105s, per cwt.

GINGER.—African on the spot is firmer at 185s, per cwt, with new crop offers at 190s., c.i.f. Jamaican No. 3 is 220s, on the spot and 205s., c.i.f.

Gum Acacia. — Kordofan cleaned sorts on the spot are quoted at 132s. 6d., per cw<sup>†</sup>. Forward shipment, 119s. 6d., c.i.f.

Henna.—Firm. Indian is 105s, and Egyptian, 130s, per cwt. on the spot.

Honey.—Quiet. Australian light-amber is offered on the spot at 103s, to 110s, per cwt., medium-amber. 95s. to 100s, Argentine is from 115s. to 120s, and Jamaican, 120s, to 130s.

1PECACUANHA, — Spot: Small lots of Colombian at 52s, 6d. Nicaraguan offered at 60s, per lb., c.i.f. No definite shipment offers.

LIQUORICE.—Natural whole root, spot: Anatolian, 60s, per cwt,; Russian, 40s.; Syrian, 35s.; Persian, 37s. 6d. Block juice quotations are 200s. per cwt. delivered. Italian stick, from 310s. to 475s, per cwt., duty paid,

MACE. — West Indian pale blade is 95. per lb.; for shipment, 8s., nominal, c.i.f.

MERCURY.—Dearer. Nominal spot value is £90 per flask (76-lb.), ex warehouse.

Orange Peel.—Bitter quarters. Spanish quoted at 1s. 10d. and West Indian at 1s. 1d. per lb. on the spot. Bitter ribbon 1s. 2d.

PAPAIN.—Spot value for East African grade one is 22s, per lb. Ceylon white is 24s

PEPPER.—White Sarawak is unchanged at 5s. 9d. per lb., spot, with afloat parcels quoted 5s. 5d., c.i.f. Black Sarawak, 5s. 6½d., spot; May shipment, 4s. 3d., c.i.f. Black Malabar, 560s. per cwt., spot; 485s., c.i.f., May shipment.

PODOPHYLLUM.—Peltatum is 336s. per cwt. on the spot. Emodi is 140s.

QUASSIA. — Jamaican is 33s. per cwt., c.i.f., nominal.

RAUWOLFIA (SERPENTINA).—Spot supplies are scarce; shipment offers withdrawn.

RHUBARB.—A parcel of Shensi is offered at 10s, 6d, per lb, Sound rough round almost unobtainable on the spot and no offers for immediate shipment from origin.

SARSAPARILLA. — Stocks of Jamaican native red on the spot are difficult to locate. No offers from origin.

SEEDS. — (Prices per cwt.): ANISE. — Quiet. Cyprian on spot is 166s. Caraway. —Sellers of Dutch are asking 145s., duty paid, London and 117s. 6d., c.i.f., London 10: prompt shipment. CELERY.—Indian is offering at 190s., spot with no business reported. For shipment, 135s, to 140s., c.i.f., quoted, Coriander.—Small business reported passing on spot in Moroccan at 60s., duty paid (55s., in bond). English is nominal at 72s. 6d. Shipment, Moroccan old-crop is quoted at 49s. 6d., c.i.f.; new-crop for July/August is quoted 49s. to 52s. 6d., c.i.f. Cumin.—Spot is unchanged with Cyprian offered at 125s.; Moroccan 125s., duty paid (115s., in bond). Shipment: Cyprian, 112s, 6d.; Moroccan old-crop is 105s. and new-crop for July/August, 102s. 6d., c.i.f., is indicated. Dill.—Indian continues to be offered at 85s., spot London, Fennel.—Quiet with no business reported. Indian quoted 95s. to 97s., on spot. Fenugreek.—Moroccan is steady with small business passing at 47s. 6d., duty paid, spot London, Mustard.—English, 65s. to 85s., according to quality.

SENEGA. — Spot material offered at 16s. 3d.; prompt shipment, 15s. 6d., c.i.f., and July-August, 15s. 3d., c.i.f.

SENNA. — Tinnevelly LEAVES, (per lb.) prime No. 1, 10½d, to 1s. 1d., as to crop; prime No. 2, 9d, to 11d.; prime No. 3, 7d.; f.a.q., No. 3, 6d.; pods, f.a.q., 6½d, hand-picked, 1s. 4d. to 2s. Alexandrian manufacturing pods, 1s, 10d., spot and 1s. 7d., c.i.f.; No hand-picked spot or forward.

SERPENTARIA. — Root is offered at 37s. per lb. on the spot,

SHELLAC. — Spot quotations are:— F.O.T.N. pure, 277s. 6d.; F.O. standard No. 1, 290s; fine orange, 310s. to 360s. per cwt., ex-London warehouse.

STROPHANTHUS.—Kombé, 100 per cent. is about 9s. per lb., on the spot, and Gratus, 16s.

TURMERIC.—Madras finger on the spot is quoted at 155s. per cwt.; afloat, 118s. and May shipment, 115s.; Rajapore, 150s., spot.

Vanillin. — Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s, 3d.; 56-lb., 30s, 6d.; smaller quantities, 30s. 9d.

30s. 6d.; smaller quantities, 30s. 9d. Waxes.—Bees'.—Dar-es-Salaam. Spot about 485s, per cwt. May shipment, 475s., c.i.f.; Sudanese, 430s., in bond and 422s, 6d., c.i.f.; Abyssinian, spot, 470s. and shipment 430s., c.i.f. Benguella, 475s. duty paid and 415s., c.i.f. Candellilla.—Spot is 630s. per cwt. Carnauba.—Prime yellow on the spot is 1,000s. per cwt.; shipment, 970s., c.i.f.; fatty grey is 690s., on the spot; shipment, 665s., c.i.f. Montan.—Reibeck, crude, 130s. per cwt., on the spot; shipment, 665s., c.i.f. Montan.—Reibeck, crude, 130s. per cwt., spot, per lb.

WITCH HAZEL.—Leaves on the spot are about 1s. 9d. per 1b.

#### **Essential and Expressed Oils**

AMBER.—Rectified on the spot is quoted at from 1s. 6d. per lb.

Bois de Rose. — Brazilian on the spot is 31s, and 29s, 6d., c,i.f.

CAJUPUT. — Spot supplies are 15s, 6d. per lb.

CAMPHOR, WHITE. — Chinese is 3s, 6d. per lb., on the spot.

Cananga. — Supplies to come forward are quoted at from 60s, per lb., c.i.f. Spot is from 62s. 6d. per lb.

CARAWAY. — English-distilled is offered at 45s.; imported oils are from 21s. 6d. per lb.; early shipment.

CARDAMOM.—Price per lb. is from 370s, for English-distilled and 280s. for imported.

CITRONELLA, — Very firm, Prices (per lb.) are:—Ceylon, spot, 6s. asked: shipment, 5s. nominal, c.i.f.; Java, 6s. 4d., duty paid; shipment, 5s. 9d., c.i.f.; Formosa, 6s. 4d., duty paid, and 5s. 8d., c.i.f.

CORIANDER. — Russian-seed oil is from 130s, per 1b., and Dutch at 115s.

CUBEB.—English-distilled is 55s. per lb. and imported, 47s. 6d.

CUMIN. — Quotations for English-distilled oil are about 75s. per lb. and imported, 60s.

DILL. — B.P. English-distilled oil is quoted at 60s. per lb, Imported oils are offered at from 32s. 6d. per lb,

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 4s. 10½d. per lb., and 80 to 85 per cent., 5s, 3d. Spanish, 70 to 75 per cent., 4s, 6d., duty paid.

FENNEL.—Spanish sweet on the spot is quoted from 9s. 6d. per lb.

GARLIC.—English is from 55s, to 60s, per oz.

GINGER. — English-distilled oil is from 120s, per lb. Imported oils are available at from 80s. to 90s, per lb.

Grapefruit.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence,

LAVANDIN, — Spot values are from 13s, 9d, per lb.

LEMON.—B.P. (4 per cent. citral) on the spot is 38s. to 39s. per lb. Californian, 35s. 3d. to 52s. 3d., c.i.f., as to quality, subject to licence.

LEMONGRASS.—East Indian is again easier at 8s. 9d. per lb. on the spot with forward offers (May-June), 8s, 5d., c.i.f., July-August, new-crop, 8s.

ORIGANUM. — In original containers the price is 13s. to 14s. per lb.

PALMAROSA.—East Indian is 60s. per lb., on the spot, and 56s., c.i.f., for shipment,

PATCHOULI. — Penang for shipment is 47s. 6d. per lb., c.i.f. with spot offers at 55s., duty paid.

Pennyroyal. — Spot value is from 13s, 6d. to 14s, per lb., duty paid.

Peppermint, — Arvensis: Chinese is 19s. per lb., spot, and 18s. 9d., c.i.f. May/June shipment: Brazilian (45 per cent.), 17s. 3d., spot and 17s., c.i.f. for shipment. Italian "Mitcham" type oil is from 45s, to 47s. 6d. per lb, on the spot.

PIMENTO. — English-distilled berry is nominal with imported at 55s. Rectified leaf (imported), 25s, per lb.

PINE.—Pumilionis on the spot is from 16s. per lb.; sylvestris, 9s. Siberian (cbietis), 9s. 6d.

SAGE.—Spanish is offered at from 9s. per lb. and Dalmatian at 50s., duty paid.

Sandalwood.—Mysore is from 65s, per lb. as to quantity; East Indian, 63s, 6d. Vetivert, — Bourbon in original drums on the spot is 92s, 6d, per lb.

#### WORLD TRADE

S. Africa to Ease Controls. — South Africa's director of imports and exports, Mr. Carl Borchenhagen, said in Capetown on May 6 that import control would definitely be lifted "in the not too distant future." But he told the Federated Chamber of Industries that before controls could be lifted supply and demand would have to be balanced.

Curb on Imported Drugs Urged.— The Indian Chemical Manufacturers' Association has appealed to the Indian Government to ban completely the imports of finished drugs of kinds manufactured in that country. The Association said "the production capacity of all the manufacturers in India is very large, whereas a great part of it is lying idle."

Spanish Export Incentives.—Chemical and pharmaceutical products have been included in the list of group 5 goods allowing for special export exchange rates. Proceeds from their export can be sold to the extent of 90 per cent. in the free market. The remaining 10 per cent. must be surrendered to the Instituto de Moneda Extranjera at the official rate.

Developments in Sweden. — The British-Swedish Chamber of Commerce in Sweden, with headquarters in Stockholm, was formally inaugurated at a meeting held there on April 29 and is expected to be in full operation by the end of the summer. Sweden is Great Britain's second largest market in Europe after Holland, Western Germany having recaptured first place amongst Sweden's suppliers. Great Britain, on the other hand, is a far better customer for Swedish exports than Western Germany.

Pharmaceutical Plant at Haifa,-The plant of the Taro Pharmaceutical Industries, Ltd., sponsored in 1950 by the Pharmaceutical Association of Israel and joined in 1951 by an American group of investors, was opened at Haifa recently. The first and tem-porary factory was started near Nesher in November 1951 and produced in November 1951 and produced mostly galenicals in a very primitive way. In March 1953 the American Taro Corporation was set up in New York and soon afterwards shipments were made of modern pharmaceutical machinery and raw materials. At the end of May 1953, tablet production was The lack of space made working difficult and excluded any further development. The staff moved to the new plant at the end of February. The plant will mainly manufacture materials which are short in the country.

Among the visitors at the opening ceremony was Dr. Kohlberg (president, Pharmacists' Association of Israel).

New Zealand Import Licensing.— The New Zealand Government has added a number of items to the list of goods for which no import licences are required for imports from any country. Among the items now included are:—

Acetone; amyl alcohol; butyl alcohol; bromine, carbon bisulphide; carbon tetrachloride and other chlorides of carbon; catechu; cochineal; formic aldehyde; iodine; liquorice in blocks of

7 lb. net and over, or soft liquorice extract in bulk in vessels of 7 lb. net or over; phosphorus; pyridine; quinine, and salts of quinine; saffron; turmeric, unground; nicotine and its salts; carnauba wax.

Chilean Chemical Import Ban.—The Chilcan authorities have published a list of goods the import of which is prohibited for the remainder of the current year. Main items of interest to the chemical industry include the following acids:—

Gracial acetic, boric, hydrochloric; iso-va'erianic, formic, nitric, rectified pyroligneous, sulphuric (except with certificate of necessity from the Department of Industries); tannic (except for the treatment of wines) and tartaric. Other items include hydrogen peroxide; albumin tannate; ammonia; absolute alcohol; industrial amyl alcohol; methyl alcohol; Glauber's alt; alum; cream of tartar; liquid and green soap (except for industrial use); magnesium sulphate; mercury; silver nitrate; zinc oxide (except for pharmaceutical purposes), certain potassium salts; borax; cosmetics in general, such as rouges, creams, tooth-pastes, perfumes, powders; agar; certain bismuth salts; malt extract and synthetic vitamin K, (Chemically pure reagents for analysis may still be imported.)

#### ZANZIBAR CLOVES

THE market review of the Clove Growers Association of Zanzibar for the quarter ended March 31 (i.e., the third quarter of the seasonal year 1953-54), states that the total quantity of cloves that have passed through the central market and the Association's godowns during the seasonal year amounted to 1,162,210 frasilas. Small quantities have yet to come forward and it is possible that the Association's crop estimate of 1.200,000 frasilas (18,750 tons) will be realised. The first part (mwaka) of the 1954-55 crop is now showing, but only in a few localities, and the prospects are "very poor." It seems unlikely are "very poor." It seems unlikely that this part of the crop will exceed 50,000 frasilas (780 tons) but the association's detailed survey is awaited. Supplies for the quarter totalled 281,145 frasilas (4,393 tons) of which totalled 247,420 frasilas (3,866 tons) came from Pemba and 33,725 frasilas (527 tons) was the produce of Zanzibar. Association's buying and selling prices for the quarter remained unchanged.

Average prices for fair quality cloves in the market during the quarter are compared with those for the same period in 1953 in the following table:—

| Month                        | Average per 100 lb.                     |                                         |  |
|------------------------------|-----------------------------------------|-----------------------------------------|--|
| MONTH                        | 1954                                    | 1953                                    |  |
| January<br>February<br>March | Shs. Cts.<br>212 67<br>211 64<br>207 34 | Shs. Cts.<br>858 78<br>862 76<br>788 45 |  |

The average price for the nine months ended March 31, 1954, was Shs. 261/44 per 100 lb. ex duty. During the quarter reviewed, exports to Indonesia were 60 per cent. of the total. whilst to India it was 28 per cent., and the United Kingdom, 2.7 per cent. Exports of clove stem oil totalled 47,880 lb., all of which was shipped to the U.K. during the quarter.

#### PRINT AND PUBLICITY

#### Show Material

BIOMETICA, LTD., Bullhead Road, Boreham Wood, Herts: Showcard for Nycol ladderstop featuring an actual piece of a laddered stocking.

RICHARD HUDNUT, LTD., Power Road, London, W.4: Three-colour strutted showcard for Light and Bright having four samples of real hair attached, each showing a separate stage in Light and Bright's lightening process. Small showcard and colour guide for Petal Base displaying the three shades of the foundation, and having a Petal Base earton attached.

TRUFOOD, LID., Greenbank, London, E.1: Showcard for Trufood infant foods, featuring a photograph of a baby, taken by Studio Lisa, Ltd., Royal Warrant holders,

#### Periodicals

ARMOUR & Co., LTD., Lindsey Street, London, E.C.1: Medicinal Products, 1954. (Pp. 16).

BOOTS PURE DAUG CO., LTD., Station Street, Nottingham: Modern Farming, Spring, 1954.

CHILEAN IODINE EDUCATIONAL BUREAU, Stone House, Bishopsgate, London, E.C.2: Current Iodine Literature, 1954, Nos. 4, 5 and 6 (Pp. 69, 72 and 88).

W. EDWARDS & Co. (LONDON), LTD., Manor Royal, Crawley, Sussex: Vacuum, Vol. II, No. 4, October 1952 (published in March 1954). Price 12s. 6d. Pp. 130.

Parke, Davis & Co., Ltd., Hounslow, Middlesex; Bulletin, No. 2, 1954. Pp. 8.

#### Booklets and Leaflets

ASSOCIATION OF BRITISH CHEMICAL MANUFACTURERS, 166 Piccadilly, London, W.1: "Good for Us." Popular version of heavy chemicals productivity team report, (Pp. 10). Price 6d, (post free).

CIBA FOUNDATION, 41 Portland Place, London, W.1: Report, 1953. Pp. 40.

COUNTY CHEMICAL CO., LTD., Shirley, Birmingham: "Good Names Naturally Go Together." Booklet advertising Chemico, using names, crests and note-headings of internationallyknown hotels (Pp. 12).

IMPERIAL CHEMICAL (PHARMACEUTICALS), LTD., Fulshaw Hall, Wilmslow, Manchester: "Industry in Arcady." Pp. 24.

HERBLRT MORRIS, LTD., Loughborough, Leics: "Morris Overhead Chain Conveyors," book 215. Pp. 32.

MURPHY CHEMICAL Co., LTD., Wheathampstead, Herts: "The Control of Pests and Diseases of Farm and Market Garden Crops" (3-p. folder), "The Complete Spraying Programme, 1954" (96-p. booklet), "Lindex Seed Dressing," "Control of Pests Under Glass, Murfume Smokes" (10-p. and 2-p. leaflets).

N. V. CHEMISCHE FARRICK, Naarden, Holland: "Combating the Rancidity of Fats." Describes the use of octyl- and dodecyl-gallates, Pp. 8. "Octyl and Dodecyl Gallates in the Struggle against Rancidity of Fats." Pp. 24.

PHARMACEUTICAL LABORATORIES GEIGY, LTD., Rhodes, Middleton, Manchester: Medical Products. Pp. 42.

PIGALLE (INTERNATIONAL), LTD., 983 Finchley Road, London, N.W.11: "Pigalle Perfume Compounds" (4-p. leaflet).

Ross Ensign, Ltd., Walthamstow, London, E.17: "See What You Get with the New Fulvue Super." Pp. 12.

TIN RESEARCH INSTITUTE, Fraser Road, Perivale, Greenford, Middlesex: "The Properties of Tin." (Pp. 55). Free to libraries and research laboratories. Cost to private readers, 2s, 6d.

TUBEWRIGHTS, LTD., 25 Buckingham Gate, London, S,W.1: "Some Examples of Tubular Equipment for use in Materials Handling," Pp. 28.

UNITED GLASS BOTTLE MANUFACTURERS, LTD., 53 Bothwell Street, Glasgow, C.2: "The U.G.B. Group in Scotland." Pp. 24.

A. J. White, Ltd., 120 Coldharbour Lane, London, S.E.5: "Neftin" (6-p. folder).

#### TRADE MARKS

APPLICATIONS ADVERTISED BEFORE REGISTRATION

From the "Trade Marks Journal," May 12

For pharmaceutical preparations and substances (5)

SANDOSTENE AND CALCIUM-SANDOZ, SANDOSIENE AND CALCIOM-SANDOZ, 722,834. by Sandoz, A.G., Basle, Switzerland. BIOPHYLCO, 725,318, by Laboratoires Tyco, Fribourg, Switzerland. GONNES, B727,656, by Gilbert Roberts Lane, Gloucester. by Gilbert Roberts Lane, Gloucester, CHORIOSERIN, 727,719, by Gedeon Richter (Great Britain), Ltd., London, N.W.5. (Great Britain), Ltd., London, N.W.5. DI-ES IIN, 728,283, by J. Waterhouse & Co., Ltd., Ashton-under-Lyne.

For all goods (5)

HEPTUNA, 724,487, by Chas. Pfizer & Co., Inc., New York, U.S.A.

For pharmaceutical preparations and substances for human and for veterinary uses (5) STERALDONE, 727,890, by Ciba, Ltd.,

Basle, Switzerland, For pharmaceutical, veterinary and sanitary preparations and substances (5)

NEFTIN, 728,128, by A. J. White, Ltd., London, S.E.5.

For razors and safety-razor blades (8) DURASHARP, 726,151, by Rud, Osberghaus,

Solingen, Germany,

For scientific and photographic apparatus and instruments (9)

BONOCHORD, 727,327, by Bonochord, Ltd., London, W.1.

For surgical contrivances of rubber (10)

Device of a winged shield surmounted by a crown, 722,599, by Marco Ivanov Mantchev, Sao Paulo, Brazil.

For portable and collapsible baths for infants (11)

POPPET, 727,780, by Clive Selsey Phillips, Tunbridge Wells.

For toilet combs, brushes and sponges (21) SCHWARZA-NIGRAN, 723,792, Veh Thuringisches Kunstfaserwerk Wilhelm Pieck Schwarza, Rudolstadt, Germany,

For soap, sponge baskets and tooth-brush holders (21)

CIRDEC, 726,936, by Thomas Hill's Motor Fittings Co., Ltd., Wolverhampton.

From the "Trade Marks Journal," May 19

For chemical products for use in perfumery, soaps and cosmetics (1)

CIVETTINE, B700,291, by Firmenich & Cie., Geneva, Switzerland.

For non-medicated preparations (3)
INVISIBLE VEIL, B719,230, by Elizabeth
Arden, Ltd., London, W.1, ENDOCIL, EN-DOSYLK 726,278-9, by Organon Laboratories, Ltd., London, W.C.2. CRILLENE, 728,604, by Hauer & Co., Ltd., London, N.W.6. HARMONY, 728.672, by Vinolia Co., Ltd., Blackfriars, London, E.C.4.

For all goods (3)

Device of a seal bearing the letter O, B724,285, by C. H. Boehringer Sohn, Ingelheim-am-Rhein, Germany, HILO, 726,407, by Perkin & Co., Ltd., Leeds.

For cleaning and stain removing preparations (3) DISPOL, 722,083, by Raymond Plant, ral, Ches. RENOTEX, 728,315, by Greenwood Harrop, Bolton, Lanes.

For detergents (not for use in industrial and manufacturing processes) (3)

STERAPUR, 725,804, by Industrial and Commercial Detergents, Ltd., London, S.W.19.

For adhesive dressings for medical and surgical purposes (5)

ASTROPLAST, 717,390, by Dalmui Trading Co., Ltd., Glasgow, Scotland.

For pharmaceutical, veterinary and sanltary sub-

ASTA, 720,462, by Asta-Werke A.G., Chemische Fabrik, Brackwede-Westfalen, Germany. NEFURAN, 725,822, by A. J. White, Ltd., London, S.E.S. ENDOSYLK, 726,280, by Organon Laboratories, Ltd., London, W.C.2. NUTRICON, 727,533, by Bob Martin, Ltd., Southport, Lancs, VIGELINE, 728,379, by Fitshugh & Carr, Nottingham.

For dietetic preparations for use in slimming (5) SLIMSO, B722,627, by Bernard Samuels & Louis Marks, Southport, Lancs.

For all goods (5)

or all goods (5)
BANILOX, 725,029, by Ciba, Ltd., Basle,
Switzerland, GLIRONA, 725,811, by Harker
Stagg, Ltd., London, E.I. SCORBITAL,
SCORBITONE, 728,591-2, by The British
Drug Houses, Ltd., London, N.1.

For herbicides for application to soil and vegetation (5)

ENDOTHAL, 725,110, by the Pennsylvania Salt Manufacturing Co., Pennsylvania, U.S.A. For preparations of testosterone propionate for pharmaceutical purposes (5) TESTAPRO, 726,009, by H. E. Daniel, Ltd.,

London, S.E.19.

For weed-killing preparations (5)

MIDOFOR, MIDOXENE, 727,133-4, by Disinfestation, Ltd., East Grinstead, Sussex.

For surgical bandages, surgical dressings and sanitary towels (5)

MATCO, 727,157, by F. Matthews (Manchester), Ltd., Manchester.

For preparations containing vitamins and liver extracts for use as nutritional aids by addition to foodstuffs for dogs (5)

DOG-O-SAN, 728,141, by N. V. Philips-Roxane Pharmaceutisch-Chemische 'Duphar,' Weesp, Netherlands. Industrie Roxane

For medicated sweetmeats (5)

REDCLO, 728,236, by Teasdale & Co., Ltd., Carlisle.

#### COMING EVENTS

Tuesday, June 1

SOUTH-WEST METROPOLITAN HOSPITAL PHARMA-CISTS, Regional Hospital Board's Offices, 11 Portland Place, London, W.1, at 7 p.m. Meeting to discuss report on joint contracting for drugs.

Thursday, June 3

THE CHEMICAL SOCIETY, Burlington House, Piccadilly, London, W.1, at 7.30 p.m. Professor E. L. Hirst giving the Claude Silbert Hudson Memorial Lecture.

#### WILLS

MR. A. ACKERLEY, M.P.S., Sunnybank, Seaview Avenue, Irby, Wirral, Ches, left £1,336 (£1,283 net).

MR. H. BARRATT, M.P.S., 942 Ecclesall Road, Sheffield, left £1,445.

Mr. H. C. Biltcliffe, M.P.S., 24 Kirton Lane, Thorne, Yorks, left £204.

MISS M. I. J. BOYD, M.P.S., 18 Aboretum Street, Nottingham, left £2,320 (£2,260 net).

Mr. S. M. Bosworth, B.Sc., M.P.S., 104 Leicester Road, Bedworth, Nuneaton, Warwicks, left £3,966 (£3,914 net). Mr. W. Cornell, 64 Headley Chase, Warley

Mount, Brentwood, Essex (former chief engineer, Ilford, Ltd.), left £3,371 (£3,291 net). Mr. A. E. A. Davis, M.P.S.N.I., 38 Donegall

Road, Belfast, left £3,509. MR. J. A. DEAKIN, M.P.S.I., The Square,

Drumcollogher, co. Limcrick, left £262. MR. J. DENTON, M.P.S., 68 Skipton Road,

likley, Yorks, left £976 (£917 net). Mr. T. J. EGLINTON, Ph.C.N.I., 35 Lisburn

Road, Belfast, left £8,215. MR. T. K. FENWICK, M.P.S., 33 Canning

Street, Hebburn-on-Tyne, co. Durham, left £1,977 (£1.908 net).

MR. G. E. GUEST, M.P.S., Beech House, Ackworth, Pontefract, Yorks, left £10,300 (£10,184 net).

Mr. H. Guy, M.P.S., 35 Radmoor Road, Loughborough, Leics, left £665 (£570 net).

Mr. E. Haining, M.P.S., 61 Hemsworth Road, Sheffield, left £5,991 (£5,877 net).

Mr. F. Harrison, M.P.S., 22 Lensfield Road, Cambridge, left £3,820 (£3,540 net).

Mr. R. C. Jeffers, M.P.S.N.I., 64 Falls Road, Belfast, left £5,825.

Mr. L. W. OXLEY, M.P.S., 35 Mount Drive, Harrow, Middlesex, left £1,926 (£1,880 net).

MR. F. P. PEMBLETON, 229 Lutterworth Road. Nuneaton, Warwicks (a former manager of the Nuneaton branch of Boots, Ltd.), who qualified as a chemist and druggist in 1890, left £4,599 (£4.569 net).

MR. A. SHERRIFFS, M.P.S., 5 Henderson Road, Troon, Ayrs, left £13,823.

Mr. A. R. P. SHERRY, F.P.S., St. Margarets, Road, Colchester, Essex, left £12,980 (£12,215 net).

Mr. R. H. Sigrist, M.P.S., Lowood, Tickenham Hill, Tickenham, Clevedon, Somerset, left £11,651 (£11,344 net).

MR. J. SIMPSON, M.P.S., 55 Firpark Street, Motherwell, Lanarks, left £5,685.

MR. L. E. WILLS, Polpentre, Polwithen Road, Penryn, Cornwall, who qualified as a chemist and druggist in 1906, and passed the pharmaceutical chemist qualifying examination in 1907, left £14,891 (£14,485 net).

MR. W. E. WILTON, M.P.S., 75 High Street, Erdington, Birmingham, left £4,390 (£3,258 net).

MR. W. P. YOUNG, M.P.S., 26 East Trinity Road, Edinburgh, left £2,149.

## C. & D. WEEKLY LIST OF PRICE CHANGES

THE BRITISH DRUG HOUSES, LTD.

Each I.R.P.

10 9 R. GENATOSAN, LTD. NEW PRODUCTS AND PACKS Sebbix shampoo\*

PARKE, DAVIS & CO., LTD. (from Iune 1) All Chloromycetin products are reduced by 10 per cent.

#### P.A.T.A. PROTECTED LIST ALLEN & HANBURYS, LTD. Doz.

Allenburys sugarless pastilles 20 4 FALCONER & CO., LTD. (from Great Britain and Northern Ireland). Falconer's golden compound\* 18 10 (from June 1 in 2 7 A

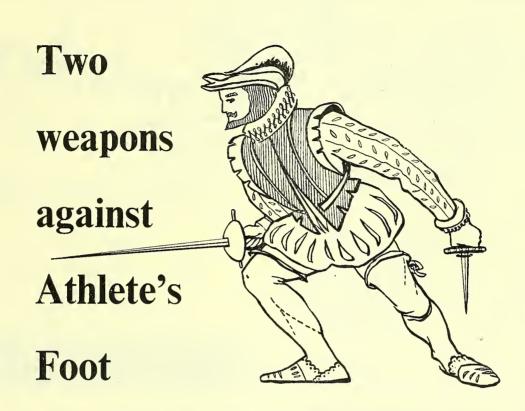
DELETION FROM PROTECTED LIST PURE PRODUCTS SOAP CO., LTD.
Derbac soap.

THE BRITISH DRUG HOUSES, LTD.
Anacobin, 1-mil ampoule Each
containing 1,000 microgm., box of 3 10 10 box of 25 87 0 4 boxes of 25 336 0 130 BRITISH INDUSTRIAL PRODUCTS Pentacide wood preserving solution 1-pt. bottle 4 9 18 78 7 1-gall, can 5-gall, drum injector spray outfit BURROUGHS, WELLCOME & CO. tube of 25 bottle of 100 bottle of 1,000 Combestrol, ALFRED FRANKS & BARTLETT CO., LTD. Lip liner pencil†

A-Advanced; R-Reduced; I.R.P.-Inclusive Retail Price; \*-Tax 25 per cent.; †-Tax 75 per cent. 3 2 LLOYD-HAMOL, LTD. 2 6 MAY. BOBERTS & CO., LTD. Molamalt, jar ROUSSEL LABORATORIES, LTD.
Pausandryl tablets, 25

29 139 500 SECROL, LTD. Sek toilct roll Gross 84 EVAN WILLIAMS CO., LTD.
Double purpose colour Green Gross 30 0 51

rinset



# and other fungal dermatoses

Mycil Ointment and Mycil Powder are extremely effective nonmercurial agents for the prevention and treatment of fungal infections of the skin.

'MYCIL' OINTMENT carries the active constituent, chlorphenesin, deeply to the site of infection.

'MYCIL' FOOT POWDER is effective in prophylaxis and in preventing reinfection after clinical cure has been established. It is of value also in combating excessive perspiration.



OINTMENT in collapsible tubes 1/6 2/8 FOOT POWDER in sprinkler tins 1/6 2/8



THE BRITISH DRUG HOUSES LTD. LONDON N.I

HOME TRADE



**EXPORT** 

# AGAR AGAR MENTHOL PEPPERMINT

Genuine Imported

and all other Botanicals, Gums, Waxes, Essential Oils and Spices

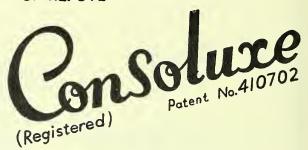
JOHN KELLYS (LONDON) LTD. 24 OLD BROAD STREET, E.C.2

> Telephone: LONdon Wall 4882, 6585 (3 lines) Telegrams: "Ergotine, Stock, London'

NEW YORK

**HAMBURG** 

AN ALL COTTON WOOL PRODUCT OF REPUTE



SUPERFINE QUALITY ALL WOOL SANITARY TOWELS

LOOPED ENDS NON - ABSORBENT BACK

WHOLESALE ONLY

ROBERT BAILEY & SON, LTD.

SURGICAL DRESSINGS MANUFACTURERS

DYSART STREET. GREAT MOOR. STOCKPORT

Phone: STEPPING HILL 3006/7 Grams: "UNDISPUTED" STOCKPORT

ALWAYS MEANS CLEAN HANDS ASK YOUR WHOLESALER, OR WRITE: WIMSOL LTD., KEIGHLEY, FOR TERMS PAYS TO DISPLAY BIGGEST

#### A FREE WINDOW DISPLAY TO HELP YOU SELL MORE

**COLD WATER DYES** 

In 30 popular shades. Counter Display Cabinet supplied with one gross on request.

48/- gross: Retail 6d. pkt. (P.A.T.A.) Less 5% for cash in 7 days

These dyes carry a bigger profit margin than others and now, to help you sell more, we offer, free of charge, a Special Window Display dressed by specialists. This, with our extensive advertising in women's magazines, can mean record sales for you this Season. Write at once to:

# STRAW HAT DYES with brushes for applying the dye.

Standard range of twelve colours. Dull or glossy series; supplied complete

Large size 18/- per doz. Retail (P.A.T.A.) 2/- per bottle Small size 13/6 ,, ,, ,, ,, 1/6 ,, Less 5% for cash in 7 days

WHITAKER & CO. (KENDAL) LTD. DYE AND CHEMICAL MANUFACTURERS - KENDAL

NIGHTDRIVING GLASSES

—the new accessory that every Motorist wants!

Manufacturers: FISH OPTICAL CO. LTD. \* McNeish House, 261 HARROW ROAD, LONDON, W.2 Tel.: CUNNINGHAM 8318 & 8267

\* Makers of the world-famous 'SUNGARD' Sunglasses

#### Model 22A and 2C

Semi Automatic Labelling Machine—either for strip gumming or all over gumming.





St pays to stick by NEWMAN puts the labels on an ever increasing number of nationally

known products. The heavy
Newman Labelling and Gumming

demand for Newman Labelling and Gumming Machines is sure proof of their efficiency.

- **★ COMPACT**—Portable and Sturdy
- \* ACCURATE LABEL POSITIONING
- \* SIMPLE TO OPERATE
- ★ SMOOTH RUNNING—Practically silent
- \* GUARANTEED

Self Feeding Motorised Gumming Machine

Model 2B

Fully Automatic Labelling Machine for small cylindrical objects.

Model 1D Machine

Detailed specifications of these machines gladly sent on request

D. TRAPOW & COMPANY LTD • ENGINEERS
113/115A REGENTS PARK ROAD · LONDON · N.W.1 Tel: Primrose 6688

# WATERHOUSE

FOR SHOP EQUIPMENT

Makers of Fine Shop Fittings

**SOLE DISTRIBUTORS:** 

SHOPFITTERS (LANCASHIRE) LTD
BULL BRIDGE - ACCRINGTON - LANCASHIRE

Telephone: Accrington 4238-9

### PERSONAL WEIGHING MACHINE

NO LOOSE WEIGHTS

To comply with British Standard Specification

Capacity 20 stone  $\times$  2 oz. divisions

280 lbs.  $\times$  2 oz. divisions 170 lbs.  $\times$  2 oz. divisions

Hardened steel knife edges and bearings.

Complies with local Weights and Measures regulations.

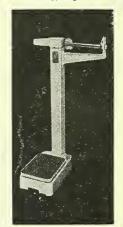
Finished in white enamel.

Also available

#### COMBINED BABY & TODDLER WEIGHER

Capacity 60 lb.  $\times \frac{1}{2}$  cz. divisions. No loose weights. Extra large perspex Baby Basket. Hygienic and easy to clean.

Finished in white enamel.



Please send for illustrated leaflet

#### HERBERT & SONS LTD.

38 Charterhouse Street, Smithfield, E.C.I.

Telephone: Clerkenwell 2812 (6 lines)

# A REALLY

NO MORE PRISING OFF LIDS WITH A THREEPENNY BIT OR FINGER NAILS!



Jelly Hand Cleansers are rapidly coming into regular use-sell the best and most attractively packed of all

#### EVERYONE NEEDS SWARFEGA

The finest jelly hand cleanser on the market

ORDER NOW and be sure to ask for the **NEW PACK** 

Enquiries through usual trade

channels or direct to-DEB CHEMICAL PROPRIETARIES LTD. SPENCER ROAD, BELPER, DERBYS. Tel.: 278

The name for the best and the best value in

No. 551 4/11 (16 fl. ozs.) No. 552 7/- (24 fl. ozs.) No. 553 8/6 (30½ fl. ozs.) No. 663 squat 8/6 (36 fl. ozs.) FROM YOUR WHOLESALER . IN CASE OF DIFFICULTY WRITE TO L. REES & CO. LTD. (ISDVAC DIVISION) 31/35 WILSON ST., LONDON, E.C.2 (MDH 2651)

# MAG. CARB. POND. B.P.

Fine Powder · Standard Powder Granular

DUNN BROS. SUCCRS. LTD. I, Booth Street, Manchester. Established 80 years.

# TANNIC ACID

DERIVATIVES AND

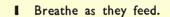
THE BRITISH DYEWOOD COMPANY LIMITED

19 St. VINCENT PLACE, GLASGOW, CI



FEEDING BOTTLES

SCREW CAP TYPE



- 2 Give an uninterrupted flow of milk.
- 3 Have a wide mouth for easy filling, cleaning and sterilizing.
- 4 Seal hermetically, filled or empty.
- 5 Hold teat covered and sterile when not in use.
- **6** Store prepared feeds for later use.
  - 7 If the Feeder is wrapped in a cloth the contents remain hot for several hours.

MADE IN A BIRMINGHAY Griptight
PRODUCT

MADE IN BIRMINGHAM . ENGLAND

LEWIS WOOLF LTD.

144 OAKFIELD ROAD, SELLY OAK, BIRMINGHAM, 29

NATIONAL FORMULARY B.P. and B.P.C.

# PASTILLES

LOZENGES

are always available in ample supply.

#### GIBSON'S SUPER QUALITY

"MECCA" COUGH PASTILLES
GIBSON'S CHOCOLATE WORM CAKES
GIBSON'S LINSEED, LIQUORICE AND
CHLORO. LOZENGES
GIBSON'S SPECIAL CATARRH PASTILLES

# ROBERT GIBSON & SONS LTD.

MANCHESTER & LONDON



SURGICAL ELASTIC HOSIERY

SEAMED. SEAMLESS.
TWO-WAY STRETCH.
ELASTIC NET.

SURGICAL BELTS
TRUSSES AND SUNDRIES

Over 60 years' service of everything surgical

SURGICAL HOSIERY CO., LTD.
Russell Street, NOTTING HAM
Telephone No. 75903 Telegrams: Surgical Notts



#### -the basis of good window display

So quick, neat and flexible, rod dressing is the ideal method of window display.

Independent, quickly removable brackets slide into any position on vertical rods, and with glass shelves in place, the stands are ready for dressing.

Write or 'phone for full particulars :-

#### Wm. POTTER & SONS

Only Address:

Aldersgate Works, Felsham Road, London, S.W.15
Telephone: PUTney 7711





# FLYPAKIS flies cleanly!

YOUR CUSTOMERS WILL HANG UP A FLYPAK now impregnated with FOUR most powerful insecticides: -D.D.T., Gamma B.H.C., Pyrethrins, Paradichlorbenzene, PLUS D.C.M.X. to attack the germs and bacteria carried by the flies. Flypak is attractively packed, pharmaceutically elegant, easy to hang up, and has a pleasant smell. It comes in display outers containing 3 doz. Anticipate the big summer demand by placing your order NOW!!

DEADLY TO MOTHS TOO!

4/- per doz. (minimum order 3 doz.)

#### SPECIAL BONUS OFFER

An order for I gross or more received by 31st MAY, 1954 brings you an EXTRA 5% DISCOUNT

Sole Distributors:

DALMAS LTD., Junior Street, LEICESTER. Also 140/142 St. John Street, London, E.C.I. Tel. 65261. Tel. Clerkenwell 3399

#### SUPPLEMENTING NATURE...



The combination of bile salts and pancreatic enzymes in FELOPAN stimulates normal peristalsis and readily relieves chronic constipation. The two forms of FELOPAN—with and without mild laxatives-provide the complete treatment for breaking the cathartic habit and correcting intestinal indigestion.

FELOPAN (Orange-coated Tablets) For routine or for subsequent therapy.

## FELOPAN COMPOUND (Blue-coated

Tablets) For initial use in severe cases only.

a supplementary source of bile salts and pancreatic enzymes

OPAN

Packings: 100, retail price 3/6d. + 7d. tax; 1,000 dispensing pack.

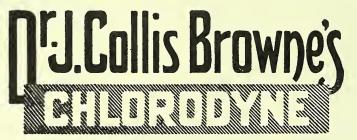


COATES & COOPER LTD PYRAMID WORKS, WEST DRAYTON, MIDDX.

# Dr. J. Collis Browne's Chlorodyne

and

The Pharmacy and Poisons Act, 1933



SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

Sole Proprietors:

J. T. DAVENPORT LTD.

UNION STREET

LONDON, S.E.I

**®**8

P.A.T.A

Sell only genuine





Real Lastonet stockings are always made to measure to ensure a perfect fit. Customers also prefer the feather-weight net which is cool, and stretches in all directions for firm even support. Lastonet discounts, too, are particularly generous! Send today for supply of measurement forms and display material to participate in this brisk trade.

- \* Guaranteed for 6 months
- \* Supplied with ordinary National Health prescription LASTONET PRODUCTS LIMITED, CARN BREA, REDRUTH, CORNWALL

Always made to measure





# The B.O.C. introduces

# Calona

(Regd. Trade Mark)

BETTER THAN ANY

- BETTER ABSORBENT PROPERTIES
- LONGER EFFECTIVE LIFE
- WIDER RANGE OF APPLICATION

Calona possesses characteristics so far in advance of any other carbon dioxide absorbent as to make it essentially a new product; it is prepared to the stringent specification of the B.O.C Research Laboratories.

Calona complies with the B.P. specification, except that the granule sizes are between 4 and 8

mesh (B.S.S.). This mesh size has been shown to give the best performance in Anæsthesia, compatible with low resistance to breathing. Though primarily produced for carbon dioxide absorption in Closed Circuit Anæsthesia, Calona is also most suitable for other medical applications, such as Oxygen Therapy, Basal Metabolism Estimation, Respirators, etc.

Calona is delivered in metal canisters with easy-flow pouring lips and airtight screw caps. These canisters are damp proof and not easily crushed . . . available in 1, 9 and 36 lb. sizes.

ALL ENQUIRIES SHOULD BE SENT TO:



#### THE ENGINES SHOOLD BE SENT TO :

# THE BRITISH OXYGEN CO. LTD

Australia
Burma
Canada
Ceylon
East Africa
Egypt
Hong Kong



New Zealand
Northern Rhodesia
Pakistan
Southern Rhodesia
South West Africa
Union of South Africa

and MEDICAL DIVISION
n Rhodesia
an

Great West Road Brentford Middx.

SERVICE AS UNIVERSAL AS THE NEED



**COMPRESSED** 

PAPER PACKING LIMITED

HORTON ROAD . WEST DRAYTON . MIDDLESEX . Tel: WEST DRAYTON 2237

# Dyspepsia

due to gastritis, hyperchlorhydria, and peptic ulcer should be treated to ensure:

Neutralization of Acidity.

Rapid Symptomatic Relief.

Protective Coating of Ulcer.

Rapid Healing of Mucosa.

The preparation of choice is

# **BISMUTH CARBONATE**

Illustrated literature on BISMUTH THERAPY available from

Bismuth Research Dept.

MINING & CHEMICAL PRODUCTS LTD.

86 Strand, London, W.C.2

Buckley For Section 19 Property Section 19 Pro

Specialise in the manufacture of Quality Tablets of every kind, and of Contraceptive Foam Tablets of the highest standard.

Quotations gladly submitted.

# owker Tablet Co.

LIMITED EST. 30 YEARS

29 PARKFIELD STREET ·
LONDON · N · I · Telephone Canonbury 3401

GURE-SELLING STOCK!

**KEARSLEY'S** 

THE ORIGINAL

WIDOW WELCH'S FEMALE PILLS

Over 10d BOX PROFIT by ordering I dozen 4/1 size. Bonus given on every dozen (13)
It pays to push this size.

Established 1787 in the Reign of King George III C. & G. KEARSLEY LTD.
71 DARTMOUTH ROAD, LONDON, S.E.23

THE NATION'S SUPER-SALESMAN SAYS:

# "Put MERMAID SPONGES in your window to absorb sales."



There'll be singing in the bathroom—and happy notes in cash registers when this MERMAID SPONGES advertisement appears in the RADIO TIMES. It will be seen in sixty out of every hundred homes in your area for nine days - just when the people in those homes are in a receptive mood. And when the women who do the spending see your MERMAID SPONGE display, they'll decide on the spot that these delightful sponges are a luxury falling comfortably within their purse-range — especially since they're advertised in the RADIO TIMES.

Stock and DISPLAY

goods advertised in the RADIO

> All enquiries to: HEAD OF ADVERTISEMENT DEPARTMENT. B.B.C. Publications, 35, Marylebone High Street, London, W.1.



THE CHOICE OF THE FIRST CLASS CHEMIST

**Prices** on request P.A.T.A. list

#### **EDME**

IMPERIAL HOUSE, 84-86 REGENT STREET, LONDON, W.I Phone: Regent 5563-4 Grams: Edme, Piccy, London. Works: Mistley, Essex

Window and Counter Displays FREE

#### Your orders for

Drugs, Galenicals, Injections, Sterile preparations, B.P., B.P.C., N.F. Preparations, Tablets, Pills, Ointments, Capsules, Chemists' and Druggists' Sundries, Surgical Dressings, Plasters, Appliances, Ethicals and Patents. ...Rapidly delivered at competitive prices



## daily delivery

IN THE GREATER LONDON

A comprehensive service for the Pharmacist



LABORATORIES LIMITED

Wholesale and Manufacturing Chemists

EXMOUTH STREET, ROSEBERY AVENUE, LONDON, E.C.1
Telephones: TERminus 9494, 5216-7

#### Bonne Santé!

—and you cannot have bonne sante without crude drugs from the specialists in botanicals

#### **BROME & SCHIMMER**

Importers & Exporters & Millers.

7 LEATHER MARKET, LONDON, S.E.I.



A NEW PRODUCT

with a famous name;

A new product makes news—but the selling appeal is doubled if the product bears a famous name! These NEW Evan Williams "double-purpose" Colour Rinses colour and perfume the hair! Retailing at 5½d each (trade 30/- per gross plus P.T.) and available is six beautiful and popular shades, they're bound to be sure sellers—

particularly if you make good use of the compact and lattractive point-of-sale display!

double-purpose

**COLOUR RINSES** 



Sales Dept.: EVAN WILLIAMS Co. Ltd., Aintree Rd., Perivale, Greenford, Mdx.

#### NO ADDED SUGAR



in these delicious fruit drinks





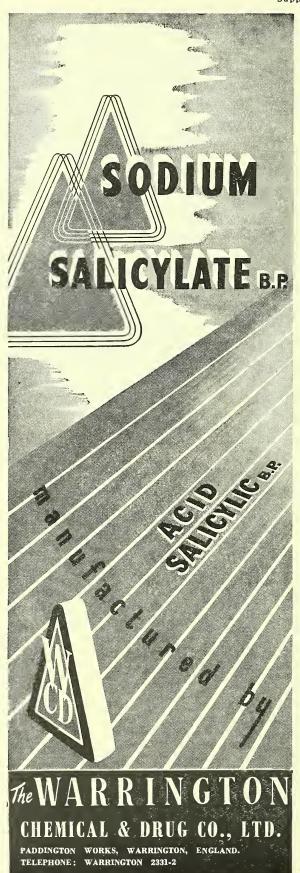
ROSE'S DIABETIC LIME JUICE

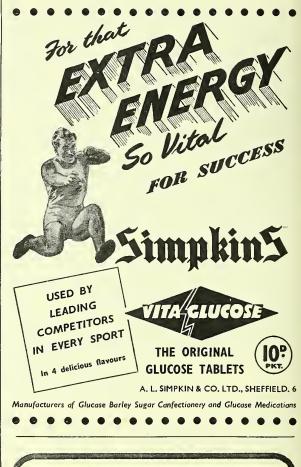
3/6 a bottle

ROSE'S DIABETIC ORANGE OR LEMON SQUASH

3/- a bottle

\_FROM LEADING CHEMISTS\_







MADE BY THE MAKERS OF THE FAMOUS NURSE HARVEY'S MIXTURE

Sorexa proves itself!

SOREXA WARFARIN BAIT

"Sorexa" Warfarin Rat Bait
can be put down side
by side with any other
Warfarin Rodenticide—
the rats will show
their preference for

## SOREXA

Sorexa—the original British Warfarin rat bait—is certain death to every rat. Certain because warfarin is the deadliest rodenticide ever produced—100% effective because rats like Sorexa as can easily be proved.

When Sorexa is laid, complete extermination of ALL rats within a matter of days is assured. Rats begin to die within 3 days of laying bait and should all be dead by 7-14 days.

Sorexa is the complete answer to all your customers rat problems, and, remember, it is so much safer than old-fashioned rat poisons.

THE EXTRA
ATTRACTION
MEANS EXTRA
KILLING POWER

From Your Usual Wholesaler

#### **FULL TRADE DISCOUNTS**

SOREXA

 SOREXA 5

| 1 | 1b. . . . . . . . 13/6 | 6 | 1bs. . . . . . . . 63/- | (1 | 1b.|makes 20 | 1bs. bait for Common Rat).

SOREXA Warfarin BAIT (Ready for use) I lb. drum 3/6

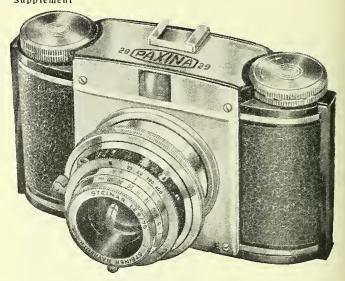
SOREX (LONDON) LTD. Tonbridge Road, MAIDSTONE, KENT

# THE FINEST VALUE IN 2½"× 2½" CAMERAS

This new Paxina is a fine example of camera craftsmanship, smart, modern, and with a remarkable specification. Takes 12 2½ in. × 2½ in. pictures on size 20 roll film, f/2.9 anastigmat lens and flash synchronised Pronto shutter. Speeded B. 1/25th, 1/5oth, 1/10oth and 1/20oth sec. and delayed action device. Cable release socket. Modern telescopic lens extension. Optical viewfinder, rangefinder shoe. Strong die-cast body, leather covered, with smart chrome trim and excellent finish in all details. Tripod bush.

#### ONLY £14:14:0

| Leather Ever-ready Case - | £2:14:4 |
|---------------------------|---------|
| Lens Hood 34mm            | 13:3    |
| Filter Mount 34mm         | 9:0     |
| Colour Filters 31mm. All  | colours |
| except Red                | 5:9     |
| Red                       | 9:9     |





We recommend Ferrania P3 or S2 Superpanchro film for Paxina 29

#### **NEVILLE BROWN & COMPANY LTD**

77 NEWMAN STREET · LONDON · W.I. Telephone: LANgham 7161 (10 lines)



#### AN ENCYCLOPÆDIA OF POISONS LAW



## POISONS GUIDE

VOLUME 1:
POISONS LIST & KEY
20/- (Postage 6d.)

VOLUME 2:
POISONS PROVISIONS & EXPLANATIONS

**40** - (Postage 6d.)

COMPILED AND CO-ORDINATED BY

W. A. WHATMOUGH, B.Sc., Ph.C., F.R.I.C.

No pharmacist, in whatever branch he is engaged, can afford to be without these two volumes, which together form a veritable encyclopædia of poisons law. They provide complete information on what the authorised seller of poisons should do in every situation covered by the Poisons Rules and Dangerous Drugs regulations and enable poisons to be supplied without the slightest anxiety. Order these essential volumes NOW!

Order from your Bookseller or direct from The Publisher:

28 ESSEX STREET · STRAND · LONDON · W.C.2

## FINE CHEMICALS & DRUGS

Adrenaline
Benzocaine
Diastase
Ephedrine
Pancreatin
Papain
Pepsin
Phenazone
Piperazine
Saffron
etc.



**ESSENTIAL OILS** 

Aniseed, Bay. Cajuput, Juniper, Peppermint, etc.

\*Dega\* Brand Specialisties —
Terpeneless Oils & Isolates, Perfume
Concentrates.

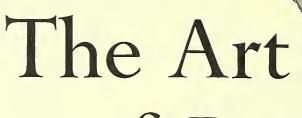
## CHAS. ZIMMERMANN & Co. Ltd

DEGA WORKS, WALMGATE ROAD, PERIVALE, GREENFORD MIDDX

Telephone: Perivale 9121 (4 lines) . Telegrams: Acidolan, Greenford

**NOW AVAILABLE** 

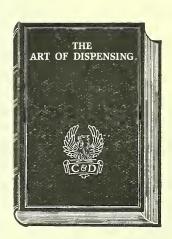
A Modern Version of an Old Favourite...



of Dispensing

First published 1888 Completely re-written

1953



"The Art of Dispensing" is the most economical, complete and up-to-date manual dealing with the pharmacist's work at the dispensing counter.

This treatise on the methods and processes involved in compounding medical prescriptions has proved of untold value to generations of pharmacists and may, indeed, be regarded as the classical work on this subject.

Many of the difficulties and perplexities met with in the daily practice of the art and craft of pharmacy are explained in simple yet concise fashion. This book is a necessary part of the equipment of every dispensary.

New ideas have been incorporated and scientific knowledge has been added to the art formerly based on skilful training during apprenticeship and from experience gained in pharmacies of international repute.

Price 21s. (Postage 9d.)

Order from your Bookseller or direct from The Publisher:



28 ESSEX STREET ... STRAND ... LONDON W.C.2

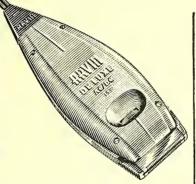
## Regular ARVIN advertisements in all these papers

Radio Times Daily Express News of the World Daily Mail Daily Telegraph Sunday Dispatch Sunday Express People Reveille Weekend Mail Eagle Readers Digest Boy's Own

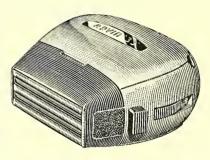
will stimulate demand and enquiries...
for these three ARVIN electric shavers



ARVIN "CONSORT" For A.C. mains only; with "Slim-Twin" cutting head; retails at 63/5. A best seller, this model, offering the finest value on the market.



ARVIN "DE-LUXE" For AC/DC mains; also with "Slim-Twin" precision cutting head; packed in smart, modern "Wind-a-Pak"; a real eye-catcher in display. £4.11.5 retail.



ARVIN "33" The new, luxurious triple-headed shaver with rhomboid cutting shears — a unique advantage. Dual Voltage. Packed in handsome real Hide case. Retails at £8.19.9.

So display the shavers and leaflets and keep them on display!

ARVIN =

**ELECTRIC SHAVERS** 

ARVIN ELECTRIC LTD., FERNBROOK AVENUE, SOUTHEND-ON-SEA



## When your advice is sought.....

for an efficient dentifrice.

In consistency, flavour and cleansing property, Phillips' Toothpaste meets all the needs of a first-class dentifrice. It can confidently be recommended to customers requiring a product of proved efficacy in keeping the teeth scrupulously clean and to bring out their

natural sparkle and beauty. Phillips' Toothpaste possesses an advantage which may be claimed by no other dentifrice, it incorporates 'Milk of Magnesia' which neutralizes on contact the mouth acids which are a predisposing cause of dental decay

and gum irritation.

## Phillips DENTAL Toothpaste

The other Phillips' Proven Products are:

#### 'Milk of Magnesia' REGD.

Of unsurpassed efficacy in the treatment of a wide variety of conditions associated with gastric acid disturbances.

#### Mil-Pur REGD.

A genuinely mild evacuant ideally suited for administration to young infants, the enfeebled, sick or elderly.

#### 'Milk of Magnesia' Tablets

Particularly valuable to the chronic or casual sufferer from dyspepsia and acid indigestion. Pleasantly mint flavoured.

#### California Syrup of Figs REGI.

Compounded from the natural extracts of senna and figs. A gentle yet efficacious laxative for family use.

THE CHAS. H. PHILLIPS CHEMICAL CO. LTD., 179 ACTON VALE, LONDON, W.3

28 ESSEX STREET, STRAND, LONDON W.C.2

#### COMPANY ORRIDGE &

184 STRAND, W.C.2 Tel.: TEMple Bar 9212/3 & 6340

CHEMIST BUSINESS TRANSFER AGENTS AND VALUERS WHOLESALE AND RETAIL BRANCHES: BIRMINGHAM · SOUTHAMPTON · LIVERPOOL · SHEFFIELD · CARDIFF

Irish Representative: Mr. J. A. Bassett, Ph.C., 57 Great Victoria Street, Belfast, Northern Ireland. Tel.: Belfast 27078 

#### **BUSINESSES FOR DISPOSAL**

17/6 for 36 words (min.) then 4d. per word. Box 2/-

DRUG STORE. Large lock-up shop, £1,850, lease 14 years, rent £6 weekly exclusive, or would consider selling property, district S.W.2. Box C 1337.

Box C 1337.

DRUG STORE, LONDON. Leasehold lock-up premises, main road, ample scope for pharmacy, near doctor's surgery. Stock and fittings £1,250. Tel. No. Renown 6076. C 1322.

SOUTH-WEST. Druggist's business for disposal, very nicely situated, main street, coastal and market town, near doctors, no opposition, freehold, large living accommodation. Box C 1342.

#### PREMISES FOR SALE

17/6 for 36 words (min.) then 4d. per word. Box 2/-

CENTRE BUSY KENT VILLAGE, comfortable double-fronted house, ideally suitable conversion dispensing chemist. All services and conveniences. Freehold and with vacant possession. Price £2.200. Write, Christophers, The Peacock Inn, Goudhurst, Kent, or 'phone Goudhurst 233.

SHOPS WITH FLATS OVER, shortly to be built in St. Mary Cray, Kent, leasehold, Full particulars from E. O'Sullivan (Kenley), Ltd., Cray Avenue, St. Mary Cray, C. 1328

SALE: Nr. Manchester. Lofty single-storey buildings for sale by order of the receiver and manager. Premises at present occupied by wholesale distributors of chemists' and surgeons' sundries, etc. Floor area also 4,500 sq. tt., central heating. 1,500 sq. yds. of land unbuilt upon. Price £4,500. Business also for, salc. Substantial tax losses. Richard Graham & Co., F.A.I., 86 School Road, Sale, Manchester. (Sale 1845).

#### PREMISES TO LET

SHOP TO LET. One recently constructed lock-up shop to let in Dagenham Road, Rush Green, Rent £250 per annum, exclusive, Forms and details from Borough Treasure, Civic Centre, Dasenham.

#### **APPOINTMENTS**

18/- per half-inch (min.) and pro rata. Box 2/-

#### ARCHWAY GROUP HOSPITAL MANAGEMENT COMMITTEE, WHITTINGTON HOSPITAL, LONDON, N.19

Applications are invited for the appointment of Pharmacist at the above hospital, Salary scale £450 x £25—£575 plus London Weighting. Whitley Council conditions, Duties will include work at an attractive smaller hospital in the Group. Candidates may visit the department by direct arrangement with the Medical Superintendent.

Applications stating age, qualifications and experience together with the names of two referees to Group Secretary, 45 Cholmeley Park, N.6, within 10 days, C7069

ADMIRALTY PHARMACISTS

ADMIRALTY PHARMACISTS
Applications are invited from pharmaceutical chemists for posts as pharmacists in R.N. Hospitals and Medical Depots at home and abroad. Salary scale £450 x £25—£575. Starting pay according to previous professional experience, but candidates under 23 would enter at appropriate point below minimum quoted. Allowance of £25 a year payable in addition to holders of a recognised qualification higher than the normal pharmaceutical qualification (i.e., Ph.C.). Foreign Service Allowance payable overseas, Prospects of promotion to higher ranks. Superannuation benefits under National Health Service (Superannuation) Regulations 1950; deduction of 6 per cent. made from salary on that account. (Pharmacists due to be entered for compulsory National Service cannot be accepted as candidates.) Apply to Medical Director-General of the Navy, Admiralty, Oucen Anne's Mansions, London, S.W.I.

BOW GROUP HOSPITAL
MANAGEMENT COMMITTEE,
POPLAR HOSPITAL
Locum Chief Pharmacist
required for period May 31-June 21, 1954,
inclusive. 15 guineas per week, Apply to Hospital Secretary, Poplar Hospital, East India
Dock Road, E.14 (East 1876). C 7026

#### HAMMERSMITH HOSPITAL AND POST-GRADUATE MEDICAL SCHOOL, DU CANE ROAD, LONDON, W.12 Locum Pharmacist required July 5-17, Salary 15 guineas per week. Applications to Chief Pharmacist. C 7086

#### MONSALL HOSPITAL, NEWTON HEATH, MANCHESTER, 10

Required for a fortnight in August, Salary £14 14s. per week, Accommodation can be arranged for Lady Pharmacist.

Apply immediately to: The Chief Pharmacist.

C 7037

## NOTTINGHAM No. 1 HOSPITAL MANAGEMENT COMMITTEE

MANAGEMENT COMMITTEE

Pharmacist

Applications are invited for the appointment of Pharmacist at the Highbury and Heathfield Hospitals, Nottingham, to commence duties mid-June next. Salary and conditions of service in accordance with the Pharmaceutical Whitley Council Regulations, Salary £450 x £25—£575 per annum, plus extra qualification allowance where applicable.

Applications, stating age, qualifications and experience, together with names of two referees, to be sent as soon as possible to the Secretary, General Hospital, Nottingham.

C 7010

#### ST. ALFEGE'S HOSPITAL, GREENWICH, S.E.10 (a) Deputy Chief Pharmacist (b) Senior Pharmacist Applications are invited for the above posts,

Applications are invited for the above posts, in a well-equipped department at the above hospital. Inspection of department may be made by arrangement with Chief Pharmacist. Whitley Council salary and conditions. Applications to Group Sccretary, G. & D./H.M.C., at above hospital as soon as possible. C 7028

#### NOTTINGHAM No. I HOSPITAL

NOTTINGHAM No. I HOSPITAL MANAGEMENT COMMITTEE

Senior Pharmacist (Category V)
Senior Pharmacist (female)

Applications are invited for the appointment of Senior Pharmacist (female) at the General Hospital, Nottingham, to commence duties mid-July next. Salary and conditions of service in accordance with the Pharmaceutical Whittey Council regulations, Salary £525 x £25—£625 plus extra qualification allowance where applicable.

plus extra qualification differential plicable.

Applications, stating age, qualifications and experience, together with names of two referees to be sent as soon as possible to the Secretary, General Hospital, Nottingham.

ST. AUGUSTINE'S HOSPITAL, CHARTHAM, nr. CANTERBURY Assistant in Dispensing (Male or Female) required at this 1,600-bed Hospital, Salary scale £320 to £415 p.a. plus £15 p.a. for Certificate of Apothecaries or equivalent, (Lower salary applies until 22 years of age.) Resident accommodation available for female assistant. Apply, giving age, experience and names of two referees, to Secretary, St. Augustine's Hospital, Chartham, nr. Canterbury. C 7038

#### ST. BARTHOLOMEW'S

HOSPITAL, LONDON, E.C.1

Locum Pharmaeists

Immediate vacancies exist for Locum Pharmacists until the cnd of September. Wage £13 13s. per week. Write enclosing copies of testimonials to the Chief Pharmacist. C 7045

## ST. GEORGE'S HOSPITAL, HYDE PARK CORNER, LONDON, S.W.1

Applications are invited for the post of Pharmacist at above teaching hospital, Salary in accordance with the Pharmaceutical Whitley Council scale, Applications, with full lars, to Chief Pharmacist.

## ST. GEORGE'S HOSPITAL

ST. GEORGE'S HOSPITAL
TEACHING GROUP
Chief Pharmacist (Category 1)

Applications are invited for the appointment of Chief Pharmacist (non-resident) at Atkinson Morley Hospital, Copse Hill, Wimbledon, S.W.20, which is for treatment of in-patients only (neurosurgical, psychiatric and recovery). Salary £575 x £25 to £675 plus London Weighting. Whitley Council conditions, Applications in writing, giving full details and names of two referees, to be forwarded to the Chief Pharmacist, St. George's Hospital, London, S.W.1. C7061

#### THE HOSPITAL FOR SICK CHILDREN,

CHILDREN,
GREAT ORMOND STREET,
LONDON, W.C.1
Pharmaeist

Applications are invited for the post of pharmacist at this hospital. Salary within the Pharmaceutical Whitley Council Scale (£450 x £25—£525) plus London Weighting, £25 for recognised higher qualification. Apply by letter to Chief Pharmacist. C 166

#### BERDOE & FISH

Chemists' Transfer Agents and Valuers 41 ARGYLE SQUARE, KING'S CROSS, W.C.I (opposite St. Pancras and King's Cross Stations)

Wanted immediately good class businesses in London, Home Counties and South Coast. Private clients waiting with cash up to £10,000.

All Valuations and Stocktakings, carried out under personal supervision of principals.

Phone: TERminus 3574

Established 1870

"UNISEC' from the Single Unit to the Complete Pharmacy WRITE FOR YOUR COPY OF THE STANDARD REFERENCE OF PHARMACY FITTING

Street, Strand, London,

AN EDITORIAL POST

A vacancy will shortly occur on the Editorial Staff of THE CHEMIST AND DRUGGIST for a pharmacist who has had retail training. Applicants must have a liking and aptitude for writing. Additional experience in other branches of pharmacy is an advantage, Age 25-30, Salary according to age and experience, minimum at 25 years of age £550, Appl cations, with full details of training and experience, to:—The Editor, THE CHEMIST AND DRUGGIST, 28 Essex Street, Strand, London, W.C.2. C 1347

YERS of OLD 133/5 & 141/7 OLD STREET, LONDON, E.C.I

#### Appointments—Continued

#### ST. GILE'S HOSPITAL, CAMBERWELL, S.E.5

Pharmacists
required for holiday relief duties until July 10.
Salary according to experience not less than
£13 13s, weekly. Locum also required at Dulwich Hospital, East Dulwich Grove, S.E.22,
from July 12 to 24. Apply to Group Secretary
at Dulwich Hospital or to Chief Pharmacists.

#### ST. HELIER HOSPITAL, CARSHALTON, SURREY (731 Beds)

(751 Beds)
Senior Pharmacist
Applications invited from suitably qualified
Pharmacists for the post of SENIOR PHARMACIST. This is a busy General Hospital
(Category V) which also caters for the requirements of other hospitals in the Group. Easily
accessible by London Transport.
Whitey Council conditions. London Weighting

Whitley Council conditions, London Weighting payable, Applications, with the names of two referees, to be sent to the Secretary of the Hospital (Ref.: B.N.).

ST. LEONARD'S HOSPITAL,
NUTTALL STREET,
LONDON, N.I
Pharmacist
Applications are invited for the post of pharmacist, vacant due to increase in establishment. Application with names of two referees to Hospital Secretary by June 19, 1954, C 7080

#### ST. MARK'S HOSPITAL, CITY ROAD, LONDON, E.C.1 POST-GRADUATE TEACHING HOSPITAL Whole-time Pharmacist Locum Chief Pharmacist

Applications invited for the following appointments at the above hospital, where there is a busy Pharmaccutical Department and a wide variety of experience is offered:
Whole-time Pharmacist, Whitley salary scales

and conditions, Locum Chief Pharmacist, July 5-17. Salary 15 guineas per week.

Detailed applications to Secretary, C 7042

#### SUMMERFIELD HOSPITAL, WESTERN ROAD, BIRMINGHAM

required at this Chronic Sick Hospital, Salary and conditions as prescribed by the Pharmacic ceutical Whitley Council. Detailed applications, giving names of two referees, to the Hospital Secretary.

#### THE GORDON HOSPITAL, VAUXHALL BRIDGE ROAD,

Part-time Assistant in Dispensing
Applications are invited for the above post starting immediately and should be sent to the

THE HOSPITAL FOR SICK
CHILDREN,
GREAT ORMOND STREET,
LONDON, W.C.1
Locum Pharmacist
Required as soon as possible at this Hosp'tal.
The work is interesting and varied and the salary according to age and experience, but not less than £13 13s, 0d, per weck.
Apply to the Chief Pharmacist. C 7081

#### THE LONDON HOSPITAL, WHITECHAPEL, E.1

Locum Registered Pharmacists required to mid-October 1954, Salary £14 14s, per week, Dining room facilities, Write Secre-tary.

## THE MILLER GENERAL HOSPITAL,

GENERAL HOSPITAL,
GREENWICH, S.E.10
Senior Pharmacist and Pharmacist
Applications are invited for the posts of (a)
Senior Pharmacist, (b) Pharmacist, in a wellequipped pharmaceutical department at the
above hospital. Inspection of the department
may be made by arrangement with Chief
Pharmacist, Pharmaceutical Whitley Council
salary and conditions, Applications to Sccretary, G. & D./H.M.C., St. Alfege's Hospital,
S.E.10, as soon as possible. C7020

THE MILLER CENERAL AND

#### THE MILLER GENERAL AND ST. ALFEGE'S HOSPITALS,

GREENWICH, LONDON, S.E.10
Assistant in Dispensing
Permanent or locum required at each of the above hospitals. Whitley Council rate and conditions, Apply Chief Pharmacist, Tel.: Tid. 1136 and Gre. 2655, respectively, C 7025
UNITED SHEFFIELD
HOSPITALS,
IFSSOP HOSPITAL FOR WOMEN

JESSOP HOSPITAL FOR WOMEN
Locum Pharmacist—Female
Required for all or part of the period July 12
to September 7, 1954. Salary up to 16 guineas
per week according to experience. Residence
can be provided within the hospital if required. Applications with full details to be
sent to the Superintendent, Jessop Hospital for
Women, Sheffield, 3. C 7078

## UPTON HOSPITAL, SLOUGH, BUCKS Senior Pharmacist

Senior Pharmacist required at this General Hospital where there are busy out-patient clinics. Department is equipped with facilities for manufacture and sterile work which is increasing as hospital grows in size. Salary scale £525—£625 p.a. plus higher qualification allowance where appropriate. Applications, stating age, qualifications and experience together with two referces, to Hospital Secretary. C 7057

#### THE LONDON HOSPITAL, WHITECHAPEL, LONDON, E.1

Applicants must be registered Pharmacists, Salary scale £450 (age 23) x £25 to £575 plus London Weighting according to previous experience and service, Dining-room facilities available. Write Secretary, C 179

#### WESTMINSTER HOSPITAL, ST. JOHN'S GARDENS, S.W.1

Locum Pharmacist
Applications arc invited for the post of Locum
Pharmacist, Salary 14 guineas per week. Applications, naming two referces, to Deputy
House Governor immediately. C 7059

## WHIPPS CROSS HOSPITAL, LEYTONSTONE (No. 10)

HOSPITAL GROUP

Locum Pharmacist
required at Whipps Cross Hospital, London,
E.H. Salary 16 guineas per week, Application
forms from the Hospital Secretary, to be returned within 12 days of the appearance of
this advertisement.

C 7087

#### WEST HAM GROUP HOSPITAL MANAGEMENT COMMITTEE.

MANAGEMENT COMMITTEE,
STRATFORD, E.15
Deputy Chief Pharmacist
required at OUEEN MARY'S HOSPITAL
FOR THE EAST END, Stratford, E.15 (Category IV). Whitley Council salary and conditions of service: £575 x £25—£675 per annum plus London Weighting.
Applications with copies of recent testimonials
to Group Secretary. West Ham Group Hospital Management Committee, Stratford, E.15,
by June 5, 1954. C 7062
YORK "A" AND TADCASTER
HOSPITAL MANAGEMENT
COMMITTEE

Senior Pharmacist and Locum Hospital, YORK, Salary and conditions in respect of the permanent appointment as laid down by the Pharmacutical Whitley Council, Apply, giving age, qualifications, experience and two referees to the Secretary, Bootham Park, York.

#### SITUATIONS OPEN 8/6 for 36 words (min.) then 3d, per word.

#### RETAIL (HOME)

ANNFIELD PLAIN CO-OPERATIVE Society ANNITELD PLAIN CO-OPERATIVE Society
Ltd, Wanted: Pharmacist to manage branch
shop which is shortly to be opened at Framwellgate Moor, Durham, N.U.C.O, scale of
wages, Applications stating age and experience to be sent to the General Manager, Front
Street, Annfield Plain, Stanley, Co. Durham,
C 1311

BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary according to age and experience. Engagements on a permanent basis, good prospects, eligibility for pension, life assurance, etc. Applications should be made to Retail Staff Department, Station Street, Nottingham, stating age, experience and district preferred. C 6985 LINCOLN. Unqualified assistant required, male or female, mainly for dispensing. Pleamale or female, mainly for dispensing. Pleamale or female, mainly for dispensing.

LINCOLN. Unqualified assistant required, male or female, mainly for dispensing. Pleasant dispensary and working conditions. Apply stating usual details and salary required. Cooks. Chemists, Sincil Street, Lincoln. C 1357

MID-KENT. Assistant Pharmacist, lady or gentleman, required for dispensary in oldestablished business with good supporting staff. House available if required. Box C 1335. NORBURY Permanent position offcred to unqualified assistant with perience. Knowledge of counter and photography an advantage. Good-class business. Apply with particulars to George Penman, 1347 London Road, Norbury, S.W.16. Tel.: Pollard 1438.

NORTH LONDON. Permanent position is offered to a kecn unqualified assistant with good

NORTH LONDON. Permanent position is of-fered to a keen unqualified assistant with good dispensing experience for relief duties at branches all situated in North London. Position offers variety, excellent experience with good salary and three weeks holiday a year. Resret no living accommodation, Apply with full particulars of previous experience to Box

PHARMACIST required to manage pleasant family business, Wembley Park. Easily run with good supporting staff, Write Cooper & Wood, 95 Wembley Park or 'phone Wem. 1402. C 1344

#### MEDICAL REPRESENTATIVES E. R. SOUIBB & SONS

17-18 Old Bond Street, London, W.1

are now expanding their activities and have vacancies for Medical Representatives in Northern Ireland and Eire.

These vacancies offer opportunities to join a progressive organisation of highest repute at an early stage of its development and to advance mutually with the Company, Appropriate technical education and previous experience are desirable, but every assistance will be given.

Remuneration is attractive and an incentive scheme is in operation. All expenses are paid and a ear is provided. Details of age, education, qualifications and experience should be sent in confidence to the Professional Services Manager.

#### SPECIAL REPRESENTATIVES

An ethical pharmaceutical company, part of a world-famous industrial organisation, requires three gentlemen to act as its representatives

c(1) in London (South of the Thames) and adjacent counties, (2) in London (North of the Thames) and adjacent counties, and (3) in the Midlands.

cach case with possible visits further afield in the United

Kingdoni.

Kingdoni. Their general duties will be to increase the company's business and prestige among all classes of customer and consumer—med.cal, veterinary, and dental practitioners, wholesaler, retailer and hospital drug buyer.

Applications are invited from pharmaceutical chemists with good retail and hospital background who are, preferably, already engaged as representatives. Special preliminary training will be given at the company's headquarters in the United Kingdom. Commencing salary offered is £900 per annum; a car would be provided.

Kingdom, Commencing Salaty officed is 2000 pc. amount, a car would be provided.

Briefly written applications, with a full curriculum vitæ, should be addressed to Box W.647, Haddons, Salisbury Square, London, E.C.4. All applications will be treated in confidence.

#### Situations Open—Continued

PHARMACIST (female or male) to manage newly established retail business. Nice house available and a substantial minority interest offered in the business which is situated in outer South London suburb (investment about £600). Apply Box C 1329.

PHARMACIST REQUIRED for one year, either sex, competent staff, no rota. Suit elderly person or one requiring experience. Good salary. Please apply giving full details to A. H. Clark (Maidstone), Ltd., 58-60 Tonbridge Road, Maidstone. C 1300 TUNBRIDGE WELLS. Superintendent pharmacist required for old-established, high-class pharmacy. Ideal conditions, T.S.A. licence, half-day Saturday. Good supporting staff. Suitable for lady or gentleman. Good salary offered to suitable person requiring comfortable permanent berth. Please apply giving full particulars to Miller & Co., 42 Mount Ephraim. Tunbridge Wells, or phone Tunbridge Wells 20015.

UNQUALIFIED male assistant wanted. Must have good photographic knowledge. No dispensing. Permanent position. Salesmanship essential. Durbins, Chemists, 12 The Broadway, Wimbledon. C 1338 UNQUALIFIED ASSISTANT required immediately for busy pharmacy for counter and

Wimbledon, C 1338
UNQUALIFIED ASSISTANT required immediately for busy pharmacy for counter and dispensary, cine work Apply with particulars of age, experience, etc.

UNOUALIFIED LADY DISPENSER required to assist at dispensing and counter work. Knowledge of leading makes of cosmetics ad-Knowledge of leading makes of cosmetics advantage. No rota, Sunday or half-day duties. West London area. Please write giving experience, age and salary required. Box C 1298. WANTED: PHARMACIST (male or female) as superintendent, Wages 14 gns, weekly. House, rent free, Good hours and conditions. Apply the Garndiffaith & Varteg Co-operative Society, Ltd., Garndiffaith, Mon. C 1282

#### RETAIL (OVERSEAS)

YOUNG QUALIFIED CHEMIST (lady) required for retail pharmacy Bulawayo, S. Rhodesia, Excellent opportunity for energetic lady, Apply Box C 6840 stating experience and if possible enclose a recent photograph, An interview can be arranged in England.

#### LOCUMS WANTED

LOCUMS WANTED

LOCUM pharmacist required August 23 to September 4, Hours 9 to 6, Particulars to A. Hall (Chemists), Ltd., 65 Approach Road, Raynes Park, S.W.20.

LOCUM pharmacist required for relief duties from June until September. Generous salary by arrangement. Full supporting staff, no extra duties, Apply for interview to L. Matthews & Son (Chemists), Ltd., 722 High Road, Leytonstone, London, E.11. Telephone No.: Leytonstone 1167/8.

LOCUM dispenser required for relief duties, from mid-June to September. Generous salary offered, Apply for interview to L. Matthews & Son (Chemists), Ltd., 722 High Road, Leytonstone, London, E.11. Telephone No.: Levtonstone, London, E.11. Telephone No.: Levtonstone 1167/8.

C 1346

NORTH LONDON, locum required for at least one month commencing June 21. Good salary and expenses. Apply Lamartine Yates & Lacey, 61 Carey Street, Lincoln's Inn, W.C.2.

URGENTLY REQUIRED, locum from June W.C.2.
URGENTLY REQUIRED, locum from June
5 for a week or two, longer if possible as
cover; congenial position; good salary.
Loveitt & Bones, Ltd., Hertford St., Coventry.
C 1330

#### WHOLESALE

A REPRESENTATIVE is required by an old-

A REPRESENTATIVE is required by an oldestablished company (leaders in their field)
to call on chemists in the London area. The
position is progressive and interesting and
offers an excellent opportunity to a man with
experience in selling toilet products. A car
will be supplied. The appointment is pensionable, with salary, commission, expenses and
car allowance. Write, giving details of age,
experience, salary required and whether car
owner or not, to Box C 7065.

A REPRESENTATIVE required by Trufood
Ltd. to call on the medical profession and
pharmaceutical trade in the South-western
Counties. The applicant should be a young
man preferably between the ages of 25/30,
either a pharmacist or with some pharmaccutical experience and with a genuine interest in
a career as a medical representative. He must
reside, or be prepared to reside, in the area.
Remuneration is by salary with generous superannuation scheme. Company provides car and
expenses. Write giving brief resumé of experience and salary expected, to the Sales Manager,
Trufood, Ltd., Green Bank, London, E.I.
C 7070

PRODUCTION CHEMIST

PRODUCTION CHEMIST
An unusual opportunity exists in a
fast-growing medical speciality organisation for an able young chemist or pharmacist interested in developing a career
in industry from Production Chemist towards production management. The company's plant is situated in Buckinghamshire. Applications in the first instance by
letter stating full personal and business/
professional history to Box C 7089.

AYRTON, SAUNDERS & CO., LTD., require pharmaccutical chemist for analytical and research work, preferably with some experience. Applicant will be encouraged to work for A.R.I.C., if not already so qualified. Full details of age, qualifications and experience to Technical Director, 34 Hanover St., Liverpool, 1.

BAYER PRODUCTS, LTD., Africa House, Kingsway, W.C.2, require male shipping clerk age 23-30. Experience in export documentation essential. Write to the Secretary, giving fullest details of experience and salary required.

BIOREX LABORATORIES, LTD. Sales BIOREX LABORATORIES, LTD. Sales representatives. Due to expansion a larger traveller force is required to call on retail chemists with drugs, galenicals, ethicals, patents, dressings, and sundries; pharmacists preferred, car owners with established connection in London and Home Counties; also industrial representative required. Apply with full particulars to the Managing Director, 47/51 Exmouth St., C7072 CHEMIST or technical adviser with laboratory facilities, experienced animal fats, required in advisory capacity from time to time. Box C 1324.

CLERICAL MALE for general office duties: CLERICAL MALE for general office duties; must be quick at figures. Easy hours, good propects, Apply: C. R. Butler & Crispe, Ltd., 80/4 Clerkenwell Road, E.C.1. C 7076 EVANS, GADD & CO., LTD., EXETER, require (1) a young pharmacist as an assistant in their analytical laboratories. (2) A pharmacist (preferably aged between 30 and 40 years) as representative to call on retail chemists in parts of Devon and Corpwall Appliance. years) as representative to call on retail enemists in parts of Devon and Cornwall. Applications in writing should state full particulars of age, qualifications and experience and be sent to: The Secretary, 10 Smythen Street, Exeter.

C 7043

BURROUGHS WELLCOME & CO. Medical Copywriter. A vacancy has arisen for an experienced copywriter to compile medical literature. A sound knowledge of chemistry and pharmacology is required (pharmaceutical qualification desirable but not essential). The position is permanent and pensionable. Applications should be addressed to the Manager, Publicity Division, Burroughs Wellcome & Co., 183-193 Euston Road, London, N.W.1.

Co., 183-193 Euston Road, London, N.W.1.

C 7058

INTERNATIONALLY KNOWN PHARMACEUTICAL HOUSE require representative to sell nationally advertixed products in the London area. The successful applicant will have exceptional opportunities for advancement. Remuneration by basic salary, bonus and full expenses. Non-contributory pension scheme. Age preferably between 28-35 years. Send full details and general selling experience, in confidence, to Box C 7077.

JOHNSON & JOHNSON (GT. BRITAIN), LTD., require a first-class representative to call on retail and wholesale chemists in the Yorkshire area. Preference will be given to those with connections in the area. The appointment is permanent and pensionable and remuneration is by salary and commission with expenses and car allowance. Applications, which will be treated in strict confidence, should give full details of past experience and be addressed to: Pharmaceutical Sales Manager, Johnson & Johnson (Gt. Britain), Ltd., Slough, Bucks.

C 7083

LONDON CO-OPERATIVE CHEMISTS LTD. require the services of a pricing clerk, experience in the handling of drugs, patents, ethi-

Slough, Bucks. C 7083
LONDON CO-OPERATIVE CHEMISTS LTD. require the services of a pricang clerk, experienced in the handling of drugs, patents, ethicals and sundries. Prospects considerable. Superannuation scheme and five-day week. Application in first instance to Superintendent Chemist, Grange Road, Leyton, E.10. C 1351
MANUFACTURING pharmaceutical chemists in East Yorkshire require someone with drughouse experience for putting-up and despatch department including responsibility for general supervision of the department. Permanent position for suitable person. Pension scheme. Full particulars including age, wase suggested and copy references to Box C 6976.
MEDICAL REPRESENTATION: A well-known cthical house require the services of a first-class man to represent them on the territory comprising the Manchester and East Lancashire area, Previous experience is not essential as training and every help is given. The successful candidate will be taking over an established territory and the position is a permanent and pensionable one. Remuneration is by way of salary, commission and expenses. Write in confidence to Box C 7006.
MEDICAL REPRESENTATIVES. A well-known ethical house requires first-class men with real interest and pharmaceutical background for two areas (1) Tyneside and (2) Edinburgh. Should be resident on territory and car owners. Remuneration by salary, expenses and commission, pension scheme in force. Write in confidence with full particulars to Box C 6996.

PROGRESSIVE COMPANY now expanding activities require keen.

PROCRESSIVE COMPANY now expanding activities require keen, successful, creative salcsmen (sole agencies considered) for following areas:—London and S.E. Counties; West Country; Lancashire, Yorkshire and Scotland. Applicants must be car owners with well-established connections amongst retail and wholesale chemists, co-operative societies and stores. The products, including medicated confectionery and well-known proprietaries, are outstanding in presentation and selling appeal and provide exceptional scope for initiative and ability. Existing accounts handed over, Please state age, territory and fullest details of personal and selling history in strict confidence. Box C 1349. PROGRESSIVE COMPANY now expanding

C. Ribbands & Sons The Complete Pharmacy Fitters Shopfronts and Interiors 3 RAVEY ST., BISHOPSGATE, LONDON. E.C.2.

WANTED AGENCIES for Singapore, Malaya & British North Borneo. Pharmaceuticals, Fine Chemicals, Proprietary Preparations, Cosmetics and Allied Lines.

Advertised Lines preferred.

Agency Dept. PENHAS INVESTMENTS LTD., P.O. Box No. 546 32 BANK OF CHINA BUILDING, SINGAPORE, 1. C1277

#### Situations Open—Continued

PERSONALITY BEAUTY PRODUCTS, LTD., of Ashby-de-la-Zouch, Leicestershire, manufacturers of the well-known turtle-oil 20ap, have a vacancy for a representative for the London

of Ashby-de-la-Zouch, Leicestershire, manufacturers of the well-known turtle-oil coap, have a vacancy for a representative for the London area.

C 1327 PHARMACIST or chemist with pharmaceutical knowledge required for works control in specialised manufacture and for technical service, Good prospects, Box C 7084.

REPRESENTATIVES required with established connection among wholesale chemists, hairdressers, fancy goods, etc., for fast selling sideline. Write Box C 7064.

REPRESENTATIVE REQUIRED by an oldestablished drug house marketing drugs, galenicals and packed goods, Territory, Yorkshire and Lancashire. Remuneration by salary, commission and expenses, Company car provided, Applicants must be experienced and with good connection. This post, which is an important one, offers excellent prospects to a man who can prove their ability will be considered. Apply Box C 7092.

REQUIRED by London manufacturing chemists men between the age 25 and 35, with good pharmaceutical background and knowledge of medical nomenelature, to visit doctors, hospitals, dentists and chemists for the purpose of propaganda for ethical products. Territories vacant: London, south of the Thames, Yorkshire-Durham-Newcastle, Scotland (principal cities Glasgow to Aberdeen). Applicants should state age, experience and salary required to Box C 181.

REYNOLDS & BRANSON, LTD., required frug order pricing clerk, Also a wer counter assistant for wholesale drug department. Canteng 5/5-day-week alternately. Apply North West Road, Leeds, 6.

ROBERT BLACKIE, LTD., have a vacancy for a representative, preferably a man who has had pharmacy training, to take over an existing connection in London, north of the river, Good remuneration and commission. Resident in or near London, Apply giving fullest details of age, experience, etc. 25 Pomeroy Street, London, S.E.14.

SALES EXECUTIVE: May & Baker, Ltd., Dagenham, Essex, invite pharmacists within age group 28-38 to apply for a responsible and progressive position in an Export Sales Division opering Commonwealth cou

TABLET MACHINE OPERATOR required to supervise compressing section £450 p.a. plus increases with bonus and pension scheme. 5-day week. Apply Pharmacist, Sandoz Products, Ltd., North Circular Road, Stonebridge Park, N.W.10.

#### WHOLESALE (OVERSEAS)

WHOLESALE (OVERSEAS)

EVANS MEDICAL SUPPLIES, LTD., have a vacancy for an overseas representative in the West Indies, Pharmaceutical qualifications essential. Experience of medical detailing an advantage. Reply giving particulars of education, qualifications and previous experience to the Overseas Trade Director, Evans Medical Supplies, Ltd., Speke, Liverpool. C 7088 WELL-KNOWN GROUP of companies in the toilet and pharmaceutical field invites applications from chemists (B.Sc. or A.R.J.C.) and pharmacists (B.Pharm. or Ph.C.) to take up appointments as factory managers in overseas factories. Extensive training will be given in the home factories of the group during which period the applicant will receive a salary of £750 p.a. After posting abroad a four-figure salary plus local allowances will be paid. Box C 1358.

PHARMACIST required with managerial experience for Rhodesian branch of manufacturing chemists. Capital investment desirable. Apply: Pharmador, Post Office Box 422, East London, South Africa. C 7079

#### SITUATIONS WANTED

3/- for 18 words (min.) then 2d. per word.

#### RETAIL (HOME)

BRIGHTON-WORTHING area. Unqualified ntleman offers services one or two evenings week, packing, dispensing, counter, etc. x C 1355. gentleman offers

Box C 1355, LOCUM, unqualified, dispensing, photography, and general shop work. N.W. London and Middlesex. Write Box C 1242.

#### WHOLESALE

ADVERTISING MANAGER, £5 5s. 0d. per week (part-time), London area, Expert collaboration for manufacturers seeking expanders.

week (part-time), London area, Expert collaboration for manufacturers seeking expansion. Box C 1343.

EXECUTIVE, with long, varied experience of the pharmaceutical and drug trade, wholesale, retail and manufacturing, export, import, sales, office and factory management, seeks good position with reliable firm. Box C 1341.

EXPERIENCED REPRESENTATIVE, car owner, with first-class chemist connection, Lanes and Cheshire, can handle additional line(s) on commission. Age 41, resident Liverpool. Excellent refs, Box C 1352.

GENTLEMAN, 12 years with present firm as works manager, seeks similar or other executive position with reputable firm. Box C 1354.

MEDICAL REPRESENTATIVE, pharmaceutical specialities, well-experienced, medical background, best connections doctors, hospitals, London area, able to introduce new products to the medical profession, seeks position with manufacturers. Apply Box C 1295.

#### **AGENCIES**

17/6 for 36 words (min.) then 4d. per word. Box 2/-

AGENTS REQUIRED with well-established connection for Counties of Warwick, Worcester. Northants, Leicester, Berks; Hants, and Dorset, for the sale of pharmaceutical bottles and corks on a commission basis. Existing connection. Bristol Bottle Co., Whitchurch, Bristol.

C 1332

AGENTS REQUIRED for all territories, by leading manufacturers of toilet rolls and grease-proof packs, also world-renowned brand of leading manufactures of world-renowned brand of proof packs, also world-renowned brand of Xmas crackers. Must have good connections with wholesalers, co-ops and multiples, Good terms to right men, Box AC 81768, Samson Clarks, 57/61 Mortimer Street, London, W.I. C 157

REPRESENTATION. Well-known SALES REPRESENTATION. Well-known roller soap company requires agents for all areas, commission basis, calling stores, chemists, co-operatives, wholesalers, etc. Write full details, area covered and present representation. Apply Box C 1320.

#### AGENCIES WANTED

8/6 for 36 words (min.) then 3d, per word. Box 2/-

FULLY EQUIPPED manufacturing chemists in Dublin already manufacturing and packing toilet and cosmetic preparations for English firms are open to undertake additional lines. Box C 1301.

LONG-ESTABLISHED FIRM of agents in Dublin with large connections amongst in a contact to the large.

Dublin with large connections amongst the wholesale trade are open to accept additional lines on a commission basis. Apply Box

#### **BUSINESS OPPORTUNITIES**

17/6 for 36 words (min.) then 4d, per word. Box 2/-

OWN MATERIAL TABLETED, from 6d, per 1,000 upwards. Aspirin tablets a speciality. The Dales Tablet Makers, Ltd., Steeton, Yorkshire. 'Phone Steeton 3222. C 185

QUININE SULPHATE TABLETS. Manufacturers can offer regular supplies of quinine sulphate tablets gr. 2 and gr. 5 sugar-coated white. Offers invited for quantities from 1,000 to 1,000,000. Quality and reliable deliveries guaranteed. Samples on request. C 1325

#### WANTED

17/6 for 36 words (min.) then 4d. per word. Box 2/-

ALL KINDS OF BOTTLES, JARS, SCREW CAPS, cartons, packaging materials and manufacturers' stocks of all kinds bought at fair prices for spot cash. We are buyers of merchandise of EVERY DESCRIPTION. Clearance Stocks, Discontinued lines, Surplus and Redundant Stocks. Should you have anything for disposal, please send us samples and particulars. Reliance Trading Co., 13 New College Parade, Finchley Road, N.W.3, C 153 MANESTY D3 rotary tablet compressing machines; also B3 models. Box C 7074. MEDICAL BOTTLES, tablet bottles, closures and all types of packaging materials purchased, no quantity too large. Samples and full details to Noel Davold & Co., 9 Laurence Pountney Lane, Cannon Street, E.C.4. Mansion House 3951-2.

3951-2. C 178
TABLET GRANULATING MIXER in good condition. Box C 7046.
WANTED: Second-hand plant:—Autoclave approx. 28 in. x 50 in., gas or electrically heated. W.P. 20 lb, for sterilisation of injections; electric sterilising oven, ampoute cutting and printing machine; oil jacketed, gas or electrically heated 30-50 gallon melting pans; tube-filling machine (hand). Gas or electric distilled water stills. Apply Biorex Laboratories. Ltd., 47/51 Exmouth Street, E.C.I.

WANTED: Second-hand 1 gallon empty drums/tins, declaring previous contents: light colour bitumen penetration 25/30; nigrosine base oil soluble, or any nigrosine, redundant stocks only, samples required. 10 tons pale industrial type petroleum jelly; zinc oxide, B.P. solid caustic soda, Apply Box C 7090.

WE WILL PURCHASE 5

WE WILL PURCHASE for cash a complete stock, a redundant line, including finished or partly finished goods, packing raw materials, etc. No quantity too large. Our representative will call anywhere. Write or telephone:

Lawrence Edwards & Co., Ltd., 6/7 Wellington Close, Ledbury Road, London, W.II.
Tel.: Bayswater 4020, 7692, C 140

#### MISCELLANEOUS SALES

17/6 for 36 words (min.) then 4d. per word. Box 2/-

ANTIQUE DRUG JARS AND BOTTLES. Set of five 18th-century Brisbol glass bottles, with original metal caps and inscriptions; one gallon capacity. Also several antique Drug Jars and Mortars. F. S. Thomas, 11 North Road, London, N.6. (Mountview 2527). C 1353 ASSORTED HAIR BRUSHES at 1/11d, each plus postage (6 for 11d, Dozen 1/3). Assorted Shaving Brushes at 1/3d, each plus postage (6 for 7d, Doz. 11d.), Co.d, or cash with order. Nylon tooth-brushes packed in eardboard cartons, each containing two dozen. One carton (2 dozen), 8s. Six cartons (1 gross), 38s. Scaled cardboard cartons containing 500. 186 7s. 6d., Carriage paid home. Cash with order or c.o.d. Selwin (Northwich), Ltd., Northwich. Cheshire. C 1239 FOR SALE. "Autopack" weighing and packing machine. Weight up to 8 oz. Complete with electric motor; excellent condition, Apply General Manager, Brighton Co-operative Society, Ltd., 94/101 London Road, Brighton, Sussex. MODERN CHEMIST SHOP fittings, drug rames; wallcases and frameless sliding doors, dieplay counters and showcases; all styles of window fittings and display stands, D. Mathews & Son, Ltd., Complete Chemist Shop Fitters and Shop Front Builders, 14/16 Manchester Street, Liverpool.



Your requirements met at once by Whiffens

## **ALKALOIDS**

Atropine, Homatropine, Hyoscine Emetine, Strychnine, Brucine



WHIFFEN & SONS LTD., NORTH WEST HOUSE, MARYLEBONE ROAD, LONDON, N.W.1

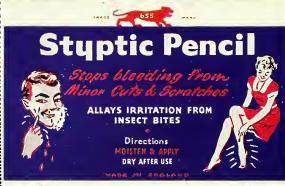
Telephone: PADdington 1041/6 Telegrams: Whiffen, Norwest, London

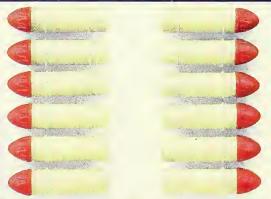
MAY 29 1954

# Sales by stocking // "655" brand products

- Made with 100% Sulphate of Alumina B.P.C.
- Will not shrink fur or feather.
- More effective in use.
- Indefinite stock
- Attractive unbreakable Red and lvory shockproof Polythene cases.

Plus 25% P.T.





Also manufacturers of:

'655' BRAND ANTISEPTIC RECTANGULAR SHAVING BLOCKS Packed Single Cartons

Packed Single Cartons I doz. Display. 8/6 per doz. plus 25% P.T

'THE FINISH FOR A
PERFECT SHAVE'

'655' BRAND ANTISEPTIC SHAVING BLOCKS IN CYLINDRICAL BAKELITE CASES Packed I doz. Corrugated Box 13/4 per doz. plus 25% P.T.

Order from your usual wholesaler, or if unobtainable, direct from —

## OF PENNITO

ALUM WORKS · ALEXANDRA RD · HOUNSLOW · MIDDX

Telephone: HOUnslow 1942

Telegrams: Alum, Hounslow



'THE FINISH FOR A PERFECT SHAVE'



